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**ABSTRACT**

This report presents data, describing mostly on-site institutional resources, from the 118 U.S. and Canadian research libraries that were members of the Association of Research Libraries (ARL) during the 1986-87 fiscal year. The following information is included in the document: (1) ARL library data tables reflecting data on collections, interlibrary loans, personnel, and expenditures of each of the 118 research libraries; (2) an analysis of selected variables which summarizes the basic data in the ARL library data tables; (3) Ph.D., faculty, and enrollment statistics; (4) summary of rank order tables of university libraries; (5) rank order tables of university libraries including such data as volumes in library, current serials, materials expenditures, monographs purchased and expenditures for monographs, total items borrowed and loaned, and professional and nonprofessional staff; (6) the ARL statistics questionnaire, 1986-1987; (7) footnotes to the ARL statistics, 1986-1987; and (8) "library expenditures as percentages of university expenditures" (a supplemental separately-issued four-page special report). (CGD)

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# **ARL STATISTICS**

## **1986-87**

**A COMPILATION OF STATISTICS  
FROM THE ONE HUNDRED AND EIGHTEEN MEMBERS OF THE  
ASSOCIATION OF RESEARCH LIBRARIES**

Compiled by  
Nicola Davai  
and  
Margaret McConnell

**ASSOCIATION OF RESEARCH LIBRARIES  
WASHINGTON, D.C.  
1988**

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## INTRODUCTION

The 1986-87 *ARL Statistics* presents data from the 118 U.S. and Canadian research libraries that were members of the Association of Research Libraries during the 1986-87 fiscal year. The ARL membership consists of 106 university libraries and 12 public or private, independent research libraries.

Rising serial prices continue to be a major concern of research libraries, and the 1986-87 data show that the crisis is not abating. Median expenditures for serials by ARL's 106 university library members were 18.2% higher than 1985-86, while the number of titles received grew by only 2%. Over the past ten years, median serial expenditures have averaged an 11.6% increase each year, while the number of current serial titles received increased an average of 1.2% per year.

Beginning in 1985-86, ARL began collecting data which allows calculation of a rough price index for monographs and serials. Using median figures for university libraries, not only are libraries as a whole spending more, but the unit costs of both serials (per title) and monographs (per volume) are going up: serials by approximately 17.2% per title over 1985-86, and monographs approximately 7.8% per volume over 1985-86. As costs increase, serials expenditures are claiming a larger portion of the library materials budget. In 1975, the median figure for serials expenditures was about 48% of total library materials expenditures. That number continued to grow until it was 58% in 1981. The rate then dropped steadily until 1986, when it was 52%. In just one year, however, serials expenditures have risen to 56% of the library materials budget--almost back to their highest point. Clearly, if serials continue to demand a larger proportion of the library materials budget, there will be a significant impact on research libraries and the resources they are able to provide for scholars in the future.

Expenditures for ARL's 118 member libraries as a whole were over \$1.5 billion in 1986-87, a 7.9% increase over 1985-86 expenditures. During 1986-87, the collections of these libraries, which now number almost 328 million volumes, grew only 2%, with 4.4% fewer volumes added than last year; expenditures for these materials increased by more than 9%. The number of serial titles received stayed virtually the same at 3.4 million, but again, serials expenditures increased over 18%. The salaries and wages paid by ARL libraries increased by 6.1%, while the number of staff increased by 1.8%.

Figures for ARL's 106 university libraries paralleled those for the ARL membership as a whole. The total number of volumes held by these libraries increased by just over 2% to over 280 million. Expenditures for materials increased 8.8%, but 1.4% fewer volumes were added than in 1985-86. The size of staff was relatively stable, with expenditures for salaries and wages increasing by 6.1%. Total expenditures, now over \$1.1 billion, increased 7.7% over last year. The median ARL university library, which holds about 2.1 million volumes, spent 14% more for library materials, but increased its holdings by only 2.3% (2.8% fewer added volumes than 1985-86), and, as noted above, its serials by only 1.2%.

The last decade or so has seen a slight shift in the allocation of resources in ARL university libraries. Library materials, which accounted for about 31% of the library budget in 1975, claimed about 34% in 1987. Total salaries and wages were 58% in 1975, but decreased fairly steadily to 51% in 1987. Binding and Other Operating Expenditures, a catch-all category for nonmaterial and nonsalary expenditures (e.g., automation expenditures), rose from 11% in 1975 to about 15% in 1987.

Changes in practice at the Center for Education Statistics affect some of the data on

enrollments in this publication. Beginning with the Fall 1986 data, the "Integrated Postsecondary Education Data Survey" (IPEDS) asks for head count rather than FTE for part-time students. For this reason, statistics for part-time enrollment are not consistent with the figures included in previous years' *ARL Statistics*.

As in past years, the Committee on ARL Statistics has continued to work on clarifying definitions and instructions which have been subject to misinterpretation,<sup>1</sup> and encouraging member libraries to bring their reporting into full compliance with the ARL definitions. Data submitted by member libraries is reviewed to ensure accuracy and consistency, and to identify and explain anomalies. Because of changes in data elements over the past two years, and the adjustments a number of libraries have made in their reporting procedures to be more consistent with the ARL definitions, care should be used in comparing this year's data to data collected in previous years. For example, a number of libraries have discovered that their treatment of government documents was not consistent with ARL's definitions and have adjusted their figures for volumes held, current serials, and microform holdings accordingly. In some cases, this more accurate reporting has resulted in changes in relative position in the rank order tables.

While most of the data contained in this publication describe on-site institutional resources, the Committee on ARL Statistics is studying various ways of measuring access to and use of additional resources. Some of the data supplied by members in several supplementary statistics surveys will be useful in determining new data categories. Some of these new measures will be reflected gradually in ARL's annual questionnaire.

Those using the *ARL Statistics* to compare individual institutions will need to consult the symbols indicated on the "ARL Library Data Tables" and the "Footnotes." Although the definitions and procedures used in the Statistics questionnaire aim at achieving consistency, as noted above, variant reporting practices do exist among ARL libraries. To aid comparability, expenditures of Canadian libraries are expressed in U.S. dollars in the *ARL Statistics*; the exchange rate use for 1986-87 is 1.3602 Canadian dollars to one U.S. dollar.<sup>2</sup>

The rank order tables presented in this publication are based on quantitative data supplied by ARL member libraries. They are not indicative of qualitative factors, and, therefore, should not be used as measures of library quality. In comparing any individual library to ARL medians or to other ARL members, one must be careful to make such comparisons within the context of differing institutional and local goals and characteristics.

Thomas Shaughnessy, Director  
University of Missouri, Columbia, Libraries, and  
Chair, Committee on ARL Statistics

Nicola Daval  
ARL Program Officer  
March 1988

#### Notes

1. The survey form and instructions, including definitions, for the 1986-87 *ARL Statistics* are reprinted on pages 55-62.
2. The rate used is the average monthly noon exchange rate published in the Bank of Canada *Review* for the period July 1986-June 1987. Expenditures as reported in Canadian dollars are given in the "Footnotes" to the *ARL Statistics*.

## ARL LIBRARY DATA TABLES

# ARL LIBRARY DATA TABLE

## COLLECTIONS

INSTITUTION	Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono- graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library	
		1	2	3	4	5	6	7	8	
		1,488,117	40,867	38,252	20,948	17,102	287	17,389	1,238,400	
		1,488,117	40,867	38,252	20,948	17,102	287	17,389	1,238,400	
		1,488,117	40,867	38,252	20,948	17,102	287	17,389	1,238,400	
		1,488,117	40,867	38,252	20,948	17,102	287	17,389	1,238,400	
		1,488,117	40,867	38,252	20,948	17,102	287	17,389	1,238,400	
BOSTON	GLM+	5	1,622,336	54,674	41,928	21,831	17,577	11,600	29,177	2,466,264
BRIGHAM YOUNG	+	6	1,863,224	63,582	61,027	82,028	10,708	7,139	17,847	1,522,450
BRITISH COLUMBIA	GLM	7	2,639,439	88,131	83,772	59,703	18,643	4,190	22,833	873,119
BROWN	b+	8	2,065,334	51,046	49,865	43,176	13,212	2,258	15,470	1,010,973
		9	1,431,954	206,181	186,202	U/A	U/A	U/A	99,065	3,582,100
		10	1,189,579	26,492	77,442	56,783	37,683	12,321	50,004	2,479,000
		11	1,366,730	68,400	67,600	32,258	16,272	1,097	17,369	1,219,100
	LM	12	5,825,521	257,027	178,352	U/A	U/A	U/A	93,467	4,098,600
CALIF., RIVERSIDE	+	13	1,303,872	55,394	53,500	40,500	9,767	3,848	13,615	1,154,347
CALIF., SAN DIEGO	GM+	14	1,810,844	74,428	50,230	51,633	U/A	U/A	20,273	1,224,024
CALIF., SANTA BARBARA	bG+	15	1,806,039	62,203	60,236	U/A	U/A	U/A	15,600	2,119,074
CASE WESTERN RESERVE	GLM+	16	1,512,133	35,812	18,554	18,460	13,200	654	13,854	606,631
	GLM+	17	4,865,137	113,277	109,061	68,707	U/A	U/A	53,214	1,428,044
	GLM+	18	1,581,754	55,650	53,874	U/A	U/A	U/A	19,588	1,953,730
	GLM+	19	1,146,138	58,140	49,182	23,663	13,044	711	13,755	1,033,180
	GLM+	20	1,103,752	34,281	32,648	14,974	8,573	3,445	12,018	154,940

B - Includes Branch Campuses  
G - Government Documents Not  
Included in Serials Count

L - Includes Law Library  
M - Includes Medical Library  
N/A - Not Applicable

+ - See Footnotes  
b - Bibliographic Count  
U/A - Unavailable

## ARL LIBRARY DATA TABLE

Libr No	INTERLIBRARY LOANS		PERSONNEL (FTE)			EXPENDITURES				
	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
	7,573	5,214	51	75	50	176	750,456	1,423,350	27,404	196,873
	15,702	13,320	86	278	37	401	765,211	2,349,337	U/A	N/A
	36,804	7,216	97	179	90	366	1,391,222	2,727,719	53,598	318,328
	30,964	10,244	81	190	75	351	2,428,262	1,936,319	107,499	29,968
5	20,422	40,278	64	146	68	278	921,566	1,697,003	138,689	87,917
6	9,767	11,421	88	46	166	300	1,428,249	1,247,709	227,730	0
7	19,035	10,519	103	269	47	419	1,798,469	1,941,444	U/A	U/A
8	9,858	5,402	75	103	65	243	1,055,875	1,272,415	U/A	N/A
9	38,054	18,946	172	296	288	756	2,520,632	3,542,511	U/A	U/A
10	32,466	7,571	70	191	63	324	1,676,615	2,533,622	121,777	0
11	13,806	8,730	54	106	64	224	1,050,612	1,835,253	237,648	U/A
12	56,850	8,467	219	293	218	730	4,274,884	3,176,751	U/A	U/A
13	8,793	8,627	34	104	41	179	1,005,098	1,167,253	177,206	200
14	16,173	7,171	71	166	79	316	1,871,457	1,454,297	301,268	34,637
15	7,937	10,070	57	139	43	239	1,315,640	1,699,262	268,689	U/A
16	36,204	6,411	66	80	28	174	513,006	1,324,781	90,990	92,085
	33,603	6,876	75	189	72	336	1,972,256	2,125,075	U/A	0
	25,364	9,030	78	139	80	297	1,229,417	1,894,002	U/A	U/A
	18,881	8,816	47	100	57	204	683,815	1,705,558	127,739	121,745
	13,055	11,922	42	71	26	139	545,840	902,541	35,246	231,484

N/A - Not Applicable

U/A - Unavailable

4	30,964	10,244	85	190	75	351	2,428,262	1,936,319	107,499	29,960
5	20,422	40,278	64	146	68	278	921,566	1,697,003	138,689	87,917
6	9,767	11,421	88	46	166	300	1,428,249	1,247,709	227,730	0
7	19,035	10,519	103	269	47	419	1,798,469	1,941,444	U/A	U/A
8	9,858	5,402	75	103	65	243	1,055,875	1,272,415	U/A	N/A
	38,054	18,946	172	296	288	756	2,520,632	3,542,511	U/A	U/A

## ARL LIBRARY DATA TABLE

Libr No	INTERLIBRARY LOANS		PERSONNEL (FTE)			EXPENDITURES				
	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
	7,573	5,214	51	75	50	176	750,456	1,423,350	27,404	196,873

## ARL LIBRARY DATA TABLE

### EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages & Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
1,000,000	78,886	1,069,795	620,488	348,432	2,777,715	400,328	5,244,922	ALABAMA
1,000,000	100,000	2,400,000	1,000,000	500,000	4,400,000	1,000,000	5,400,000	ALABAMA
1,000,000	100,000	2,400,000	2,718,854	820,000	3,938,854	1,100,000	5,038,854	ALABAMA
1,000,000	286,437	2,004,718	2,723,728	356,147	5,164,993	473,916	11,438,909	ALABAMA
2,845,175	142,117	1,826,356	1,960,624	311,491	4,098,471	1,904,238	8,990,001	BOSTON
2,903,688	102,407	2,163,316	659,710	1,249,266	4,072,292	878,860	7,957,247	BRIGHAM YOUNG
3,739,913	145,676	2,893,427	3,621,395	625,724	7,140,546	867,289	11,893,424	BRITISH COLUMBIA
2,328,290	148,576	1,848,316	1,440,975	303,863	3,593,154	2,155,454	8,225,474	BROWN
6,003,143	622,626	U/A	U/A	U/A	16,975,231	3,336,968	26,908,169	CALIF., BERKELEY
2,332,014	378,639	2,458,347	3,750,273	666,940	6,872,660	1,253,315	12,008,628	CALIF., DAVIS
1,123,543	251,469	1,954,323	2,944,132	791,774	5,080,229	1,373,219	6,308,430	CALIF., DAVIS
7,451,635	645,769	7,506,392	6,335,651	2,278,731	16,120,774	5,210,771	29,428,949	CALIF., LOS ANGELES
2,349,757	152,595	1,225,234	1,784,927	501,920	3,512,081	615,526	6,629,959	CALIF., RIVERSIDE
3,661,659	362,885	2,247,803	3,226,746	850,202	6,324,751	1,617,881	11,957,176	CALIF., SAN DIEGO
3,283,591	227,845	2,230,668	2,747,352	741,762	5,719,782	1,145,663	10,376,881	CALIF., SANTA BARBARA
2,020,862	84,980	1,768,891	1,108,530	192,001	3,069,422	709,128	5,884,392	CASE WESTERN RESERVE
1,000,000	320,000	1,706,635	3,568,137	756,238	6,121,011	2,006,680	13,424,013	CHICAGO
1,000,000	100,000	U/A	U/A	500,163	1,500,700	1,000,000	16,519,000	CINCINNATI
2,600,000	100,000	1,000,000	2,000,000	513,178	3,075,208	1,000,000	7,100,127	COLORADO
1,715,111	90,000	1,042,197	1,295,830	124,876	2,462,903	601,461	4,959,475	COLORADO STATE

N/A - Not Applicable

U/A - Unavailable

# ARJ LIBRARY DATA TABLE

## COLLECTIONS

INSTITUTION	Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono- graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library	
		1	2	3	4	5	6	7	8	
COLUMBIA	LH+	21	5,625,925	121,276	74,206	42,996	23,963	18,816	42,779	3,522,715
CONNECTICUT	BLM+	22	2,074,443	65,403	61,400	U/A	U/A	U/A	21,349	2,355,577
CORNELL	BL+	23	4,818,377	136,220	119,489	U/A	U/A	U/A	58,722	4,293,561
DARTMOUTH	GM+	24	1,664,847	58,869	50,832	U/A	16,518	3,852	20,414	1,925,486
DELAWARE	G+	25	1,778,915	55,450	55,450	U/A	U/A	U/A	21,637	1,535,016
DUKE	GLM+	26	3,591,197	92,215	82,571	48,305	25,004	9,448	34,452	1,711,547
EMORY	LH+	27	2,006,423	58,707	55,322	U/A	U/A	U/A	18,383	1,588,348
FLORIDA	GLM+	28	2,605,601	79,610	66,184	44,627	25,727	3,785	29,512	2,701,120
FLORIDA STATE	GBL+	29	1,667,720	45,718	43,582	U/A	15,473	2,226	17,699	2,526,918
GEORGETOWN	GLM+	30	1,613,442	66,530	62,938	34,643	18,968	2,067	21,035	1,603,523
GEORGIA	BL+	31	2,604,601	93,871	93,871	U/A	42,990	13,159	56,149	3,589,159
GEORGIA TECH	+	32	1,532,193	68,582	63,555	4,499	19,011	9,794	28,805	2,766,955
GUELPH	bG+	33	1,706,238	71,628	71,628	21,869	U/A	U/A	10,219	1,027,115
HARVARD	LH+	34	11,284,170	232,559	195,319	U/A	U/A	U/A	102,000	4,570,476
HAWAII	G+	35	2,164,487	77,653	75,321	U/A	26,060	6,929	32,989	2,350,040
HOUSTON	GL+	36	1,526,291	41,561	40,585	22,560	22,003	908	22,911	2,925,459
HOWARD	GLM+	37	1,618,259	83,680	76,922	36,929	24,798	1,977	26,775	2,437,773
ILLINOIS	GL+	38	7,190,443	193,407	190,273	78,056	U/A	U/A	93,113	3,064,421
INDIANA	L+	39	3,881,945	115,003	94,983	49,900	33,645	330	33,975	1,280,009
IOWA	L+	40	2,839,825	89,049	84,974	85,858	24,413	2,573	26,986	2,851,806

B - Includes Br...  
G - Government Documents Not  
Included in Serials Cou..

L - Includes Law Library  
M - Includes Medical Library  
N/A - Not Applicable

+ - See Footnotes  
b - Bibliographic Count  
U/A - Unavailable

## ARL LIBRARY DATA TABLE

Libr No	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
21	19,830	6,613	156	317	151	624	2,133,496	2,559,835	174,513	74,555
22	24,246	11,182	64	102	59	225	1,350,229	1,569,732	U/A	U/A
23	23,097	11,621	160	289	83	532	U/A	U/A	U/A	U/A
24	12,095	6,822	40	106	36	182	797,614	1,560,871	148,698	U/A
25	9,763	3,933	54	110	43	207	1,804,676	1,396,084	U/A	0
26	30,286	5,275	95	173	51	319	1,598,277	2,222,916	211,850	185,210
27	21,275	5,756	64	132	52	248	1,192,387	1,550,964	329,048	96,448
28	33,498	7,570	101	169	134	404	1,549,817	1,769,353	440,066	191,864
29	21,868	6,175	56	99	81	236	1,422,155	1,536,745	73,493	75,703
30	6,111	5,681	74	128	83	285	1,167,740	1,293,757	355,194	142,169
31	30,937	5,664	80	186	117	383	9/9,838	2,799,485	217,754	0
32	14,645	3,124	47	50	15	112	232,919	1,033,131	191,055	81,586
33	2,666	3,450	33	108	14	155	465,212	925,073	232,514	U/A
34	32,864	8,409	327	577	126	1,030	4,257,299	3,940,596	1,178,451	36,199
35	10,381	2,548	66	100	54	220	892,310	1,486,529	95,649	U/A
36	15,315	8,007	43	83	47	173	593,354	1,688,912	27,356	149,829
37	3,169	964	80	126	56	262	1,495,240	2,476,633	88,378	37,000
38	131,498	157,645	137	288	122	547	1,699,280	2,818,445	U/A	181,369
39	32,610	9,096	112	218	191	521	1,627,279	2,194,635	455,642	0
40	48,721	7,736	85	103	71	259	1,840,828	2,046,781	98,426	308,426

N/A - Not Applicable

U/A - Unavailable

## ARL LIBRARY DATA TABLE

### EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
5,042,399	491,572	5,111,107	5,059,396	1,117,818	11,288,321	3,186,353	20,008,645	COLUMBIA
2,919,961	150,634	U/A	U/A	U/A	4,743,067	887,561	8,701,223	CONNECTICUT
5,624,001	193,278	4,493,818	3,650,136	613,343	8,757,297	2,942,931	17,517,507	CORNELL
2,507,183	91,832	1,135,279	1,574,014	256,752	2,966,045	873,521	6,438,581	DARTMOUTH
3,200,760	152,814	1,301,612	1,371,113	274,823	2,947,548	1,061,841	7,362,963	DELAWARE
4,218,253	164,387	2,801,200	2,615,496	269,074	5,685,770	1,330,367	11,398,777	DUKE
3,168,847	122,724	1,911,428	1,897,521	485,014	4,293,963	1,475,763	9,061,297	EMORY
3,951,100	229,367	2,565,272	2,138,248	889,244	5,592,764	1,179,302	10,952,533	FLORIDA
3,108,096	161,680	1,439,137	1,155,827	399,330	2,994,294	393,272	6,657,342	FLORIDA STATE
2,958,860	149,965	2,026,376	1,904,374	716,119	4,646,869	1,393,771	9,149,465	GEORGETOWN
3,997,077	226,889	1,939,740	2,576,040	490,375	5,006,155	1,378,939	10,609,060	GEORGIA
1,538,691	88,368	1,259,463	530,263	128,841	1,918,567	608,533	4,154,159	GEORGIA TECH
1,622,799	64,524	1,078,958	1,483,282	101,122	2,663,362	136,822	4,487,507	GUELPH
9,412,545	694,503	9,582,966	8,844,034	966,865	19,393,865	5,291,826	34,792,739	HARVARD
2,474,488	176,886	2,137,272	1,738,171	519,666	4,395,109	989,219	8,035,702	HAWAII
2,459,451	69,120	1,161,333	1,237,162	444,002	2,842,497	574,102	5,945,170	HOUSTON
4,097,251	133,437	2,152,082	2,571,674	257,823	4,981,579	833,568	10,045,835	HOWARD
4,699,094	231,617	4,138,496	3,598,941	766,560	8,503,997	1,911,970	15,346,678	ILLINOIS
4,277,556	232,731	3,097,370	2,828,738	886,924	6,813,032	1,612,427	12,935,746	INDIANA
4,294,461	190,197	2,403,492	1,460,985	520,968	4,385,445	959,279	9,829,382	IOWA

N/A - Not Applicable

U/A - Unavailable

## ARL LIBRARY DATA TABLE

### COLLECTIONS

INSTITUTION		Libr No.	Volumes	Volumes	Volumes	Mono- graphs Purchased	Current	Current	Current	Total Microform Units In Library
			In Library	Added (Gross)	Added (Net)		Serials Purchased	Serials Not Purchased	Serials Total	
			1	2	3	4	5	6	7	8
IOWA STATE	+	41	1,708,592	55,895	45,357	24,911	14,127	6,117	20,244	1,957,937
JOHNS HOPKINS	M+	42	2,670,600	78,204	52,392	43,658	15,641	4,536	20,177	1,391,486
KANSAS	GLM+	43	2,620,805	70,925	69,282	45,129	17,764	7,981	25,745	1,865,867
KENT STATE	G+	44	1,638,383	30,133	28,785	21,517	6,849	500	7,349	764,952
KENTUCKY	GLM+	45	2,043,393	54,674	50,894	22,910	U/A	U/A	20,759	2,091,475
LAVAL	+	46	1,595,553	57,785	53,893	23,542	10,361	3,781	14,142	718,667
LOUISIANA STATE	GL+	47	2,270,617	61,895	59,859	31,479	19,179	4,148	23,327	1,354,837
MCGILL	bGLM+	48	2,390,943	62,640	43,719	37,834	14,754	3,508	18,262	870,989
MCMASTER	GM+	49	1,258,534	47,942	40,464	30,640	10,541	657	11,198	382,263
MANITOBA	GLM+	50	1,431,307	34,692	27,367	16,212	10,794	1,226	12,020	930,793
MARYLAND	G+	51	1,856,510	83,642	76,455	35,120	19,266	2,490	21,756	3,521,598
MASSACHUSETTS	G+	52	2,199,402	71,030	69,814	37,710	14,012	1,942	15,954	1,523,919
MIT	+	53	2,062,818	54,498	33,363	21,290	9,491	11,805	21,296	1,563,722
MIAMI	GLM+	54	1,576,560	53,251	23,653	29,338	U/A	U/A	16,487	938,192
MICHIGAN	LM+	55	6,019,919	135,011	99,343	U/A	34,309	32,806	67,115	3,261,743
MICHIGAN STATE	G+	56	2,431,942	86,578	75,681	50,057	15,752	3,423	19,175	1,500,911
MINNESOTA	BLM+	57	4,382,696	112,850	94,671	U/A	29,642	8,988	38,630	2,746,977
MISSOURI	GLM+	58	2,365,235	53,129	47,223	17,684	13,398	4,009	17,407	4,198,311
NEBRASKA	L+	59	1,889,500	59,785	55,942	26,124	U/A	U/A	23,511	2,109,777
NEW MEXICO	G+	60	1,276,889	35,190	31,400	24,602	U/A	U/A	10,669	2,863,797

B - Includes Branch Campuses  
 G - Government Documents Not  
 included in Serials Count

L - Includes Law Library  
 M - Includes Medical Library  
 N/A - Not Applicable

+ - See Footnotes  
 b - Bibliographic Count  
 U/A - Unavailable

## ARL LIBRARY DATA TABLE

Libr No	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
41	22,613	5,210	45	107	52	204	855,090	1,770,567	39,365	44,075
42	16,318	14,406	88	182	99	369	1,103,959	1,863,432	79,612	300,088
43	35,985	17,136	87	121	84	292	1,467,897	2,014,119	16,504	36,147
44	11,783	7,387	40	93	50	183	419,962	724,658	139,076	0
45	19,659	10,457	66	122	78	266	900,304	1,694,712	69,654	276,031
46	11,936	9,674	70	193	7	270	702,573	1,249,074	198,219	98,851
47	9,638	4,464	61	115	103	279	1,103,535	2,197,811	26,451	165,696
48	31,662	7,571	78	207	39	324	972,461	1,290,881	571,634	472,113
49	11,522	6,933	38	140	15	193	1,155,050	1,443,530	U/A	5,415
50	12,337	5,163	56	157	24	237	433,925	1,278,036	U/A	U/A
51	14,240	3,334	83	149	89	321	1,145,580	1,869,666	350,746	0
52	13,879	7,270	56	127	53	236	1,554,132	1,549,260	1,167,074	509,056
53	15,787	3,584	87	151	37	275	700,808	1,527,514	47,011	191,349
54	19,274	10,975	70	122	51	243	1,064,484	1,625,249	46,691	7,306
55	23,063	11,096	133	273	142	548	U/A	3,276,806	U/A	U/A
56	11,245	5,281	79	132	109	320	1,592,167	1,777,627	U/A	U/A
57	132,002	12,625	121	173	134	428	1,582,180	2,859,863	70,023	43,724
58	26,891	7,189	60	131	58	249	786,414	1,373,144	20,075	106,484
59	11,028	5,563	53	109	44	206	782,278	2,115,082	U/A	28,027
60	9,614	5,485	46	107	87	240	649,706	1,125,845	213,491	133,444

N/A - Not Applicable

U/A - Unavailable

## ARL LIBRARY DATA TABLE

### EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Asstants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
2,709,097	156,432	1,364,035	1,477,705	375,725	3,217,465	366,778	6,449,772	IOWA STATE
3,347,091	120,853	2,360,431	2,745,248	380,005	5,485,684	1,877,845	10,831,473	JOHNS HOPKINS
3,534,667	121,617	2,068,871	1,969,583	567,869	4,606,323	1,935,324	10,197,931	KANSAS
1,283,696	71,813	1,375,649	1,780,933	350,670	3,507,252	1,514,655	6,377,416	KENT STATE
2,940,701	113,192	1,634,783	1,646,830	586,539	3,868,152	1,360,116	8,282,161	KENTUCKY
2,248,717	38,181	2,319,004	3,070,685	105,025	5,495,615	684,099	8,466,612	LAVAL
3,493,493	195,541	1,802,361	1,231,170	770,792	3,804,323	601,725	8,095,082	LOUISIANA STATE
3,307,089	127,040	2,439,312	3,537,110	370,058	6,346,480	1,202,250	10,982,859	MCGILL
2,603,995	67,800	1,097,191	2,041,580	257,754	3,396,525	418,204	6,486,524	MCMASTER
1,711,961	78,740	1,630,677	2,092,797	290,042	4,013,516	437,304	6,241,521	MANITOBA
3,365,992	244,340	2,424,773	2,338,584	728,291	5,491,648	1,832,367	10,934,347	MARYLAND
4,779,522	92,332	1,998,134	2,103,139	236,574	4,337,847	615,694	9,825,395	MASSACHUSETTS
2,466,682	133,595	2,347,322	2,399,153	377,812	5,124,287	1,567,816	9,292,380	MIT
2,743,730	128,294	1,808,026	1,543,967	374,060	3,726,053	1,323,107	7,921,184	MIAMI
6,696,724	294,599	4,141,545	4,137,732	1,103,931	9,383,208	2,476,779	18,851,310	MICHIGAN
3,369,794	198,760	2,259,128	2,140,611	1,052,788	5,452,527	1,376,464	10,397,545	MICHIGAN STATE
4,555,790	387,028	3,931,026	3,425,658	1,705,523	9,062,207	3,876,519	17,881,544	MINNESOTA
2,286,117	164,992	1,347,130	1,287,390	409,504	3,044,024	946,046	6,441,179	MISSOURI
2,925,387	111,512	1,259,634	1,262,369	307,772	2,829,775	562,710	6,429,384	NEBRASKA
2,122,486	80,979	1,237,129	1,646,107	695,748	3,578,984	740,243	6,522,692	NEW MEXICO

N/A - Not Applicable

U/A - Unavailable

# ARL LIBRARY DATA TABLE

## COLLECTIONS

INSTITUTION	Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library	
		1	2	3	4	5	6	7	8	
NEW YORK	LM+	61	2,920,175	72,755	52,828	35,245	27,919	4,574	32,493	2,234,033
NORTH CAROLINA	LM+	62	3,414,643	118,308	112,892	63,850	25,173	19,624	44,797	2,629,539
NORTH CAROLINA STATE	GM+	63	1,201,552	56,661	47,832	31,684	12,601	2,772	15,373	2,772,551
NORTHWESTERN	BLM+	64	3,270,365	80,511	63,667	32,402	U/A	U/A	32,304	1,752,790
NOTRE DAME	GL+	65	1,794,564	57,460	49,159	27,036	U/A	U/A	15,871	1,089,486
OHIO STATE	BLM+	66	4,169,610	109,546	92,035	66,630	23,059	8,703	31,762	2,866,174
OKLAHOMA	GLM+	67	2,192,100	43,371	38,631	17,867	16,683	734	17,417	2,561,362
OKLAHOMA STATE	G+	68	1,440,780	31,801	20,162	12,861	9,024	1,077	10,101	693,731
OREGON	GL+	69	1,765,633	60,452	59,021	54,913	15,477	5,059	20,536	1,628,570
PENNSYLVANIA	LM+	70	3,442,389	85,949	65,488	U/A	U/A	U/A	28,435	1,008,715
PENNSYLVANIA STATE	B+	71	2,888,342	145,074	79,789	U/A	U/A	U/A	29,080	2,802,163
PITTSBURGH	LM+	72	2,741,834	82,076	80,638	U/A	U/A	U/A	23,098	2,151,218
PRINCETON	+	73	3,961,415	109,948	104,777	68,266	U/A	U/A	33,140	2,217,529
PURDUE	G+	74	1,746,862	63,237	51,144	16,533	17,900	2,984	20,884	1,683,836
QUEEN'S	bGLM+	75	1,672,271	40,470	39,803	26,276	U/A	U/A	15,560	1,517,341
RICE	b+	76	1,323,470	47,935	47,273	U/A	U/A	U/A	11,721	1,741,570
ROCHESTER	BM+	77	2,549,057	47,245	36,229	19,063	12,059	1,817	13,876	2,270,461
RUTGERS	GB+	78	2,407,696	114,490	107,404	50,719	U/A	U/A	19,041	2,437,099
SASKATCHEWAN	GLM+	79	1,300,773	48,877	44,096	15,144	U/A	U/A	10,092	1,725,938
SOUTH CAROLINA	LM+	80	2,225,572	58,435	49,806	21,386	U/A	U/A	19,163	2,327,945

B - Includes Branch Campuses  
 G - Government Documents Not  
 Included in Serials Count

L - Includes Law Library  
 M - Includes Medical Library  
 N/A - Not Applicable

+ - See Footnotes  
 b - Bibliographic Count  
 U/A - Unavailable



## ARL LIBRARY DATA TABLE

Libr No	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
61	10,229	8,725	106	188	73	367	1,119,545	2,304,771	379,293	199,911
62	25,486	4,289	114	202	93	409	2,011,676	2,378,345	363,529	0
63	24,592	4,652	43	122	59	224	828,709	1,651,237	272,036	173,046
64	17,171	11,270	108	154	94	356	956,640	1,949,462	68,137	52,140
65	16,831	8,818	39	111	30	180	1,026,245	1,246,460	206,823	63,546
66	27,863	11,715	114	210	131	455	2,086,743	2,725,416	U/A	U/A
67	27,049	13,974	48	79	71	198	629,423	1,569,969	74,281	81,869
68	10,103	4,745	40	69	55	164	443,736	1,073,965	26,438	36,550
69	12,872	6,358	50	87	74	211	971,517	1,340,333	U/A	277,665
70	15,670	13,260	108	167	97	372	1,191,728	2,084,191	U/A	U/A
71	21,042	10,920	113	274	73	460	1,498,064	2,530,323	U/A	0
72	15,911	7,985	87	170	75	332	1,105,642	1,931,342	90,641	8,398
73	7,717	6,324	104	223	53	380	2,465,555	1,891,118	383,336	0
74	11,007	6,805	59	149	57	265	749,226	1,891,688	44,226	0
75	5,030	6,022	39	160	24	223	841,744	1,401,227	7,072	118,438
76	14,642	2,998	40	73	32	145	787,309	1,117,640	12,679	117,578
77	24,040	7,602	57	109	56	222	1,011,343	1,800,579	8,000	216,891
78	16,595	11,883	100	240	125	465	1,538,841	2,306,504	129,342	126,189
79	10,301	13,098	36	127	11	174	622,660	1,514,179	U/A	U/A
80	14,117	5,798	59	111	28	198	688,036	1,535,505	U/A	U/A

N/A - Not Applicable

U/A - Unavailable

## ARL LIBRARY DATA TABLE

### EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
4,003,520	238,581	3,396,015	3,128,255	628,274	7,152,544	2,583,913	13,978,558	NEW YORK
4,753,550	248,489	3,443,963	3,123,231	499,863	7,667,057	1,898,587	13,967,683	NORTH CAROLINA
2,925,028	128,369	1,179,290	1,903,606	404,452	3,487,348	678,442	7,219,187	NORTH CAROLINA STATE
3,026,379	193,201	3,177,924	2,283,145	748,231	6,209,300	1,221,529	10,650,409	NORTHWESTERN
2,543,074	119,839	1,198,788	1,449,686	180,676	2,829,150	742,552	6,234,615	NOTRE DAME
4,812,156	243,849	3,292,607	3,574,172	1,080,283	7,947,062	2,394,774	15,397,844	OHIO STATE
2,355,542	73,482	1,182,930	1,008,892	528,943	2,720,765	596,055	5,745,844	OKLAHOMA
1,580,689	84,270	1,056,796	736,451	372,247	2,165,494	492,101	4,322,554	OKLAHOMA STATE
2,589,515	201,925	1,310,208	1,217,951	515,560	3,043,719	573,507	6,408,666	OREGON
3,275,919	324,385	3,184,571	3,225,284	651,295	7,061,150	1,938,376	12,599,830	PENNSYLVANIA
4,028,387	233,331	U/A	U/A	U/A	8,077,636	2,556,275	14,895,629	PENNSYLVANIA STATE
3,136,023	165,619	U/A	U/A	U/A	5,299,109	2,561,403	11,162,154	PITTSBURGH
4,740,009	272,724	3,150,758	3,408,406	444,527	7,003,691	1,745,801	13,762,225	PRINCETON
2,685,140	125,723	1,278,599	2,159,262	394,381	3,832,242	707,494	7,350,599	PURDUE
2,368,481	88,240	U/A	U/A	159,371	3,398,804	309,088	6,164,613	QUEEN'S
2,035,206	45,744	1,104,333	827,578	122,284	2,054,195	691,808	4,826,953	RICE
3,036,813	112,649	1,805,904	1,593,762	378,253	3,777,919	845,058	7,772,439	ROCHESTER
4,100,876	387,108	3,941,229	4,432,256	1,169,072	9,542,557	1,633,840	15,664,381	RUTGERS
2,136,839	73,742	967,557	1,985,379	143,250	3,096,186	312,880	5,619,647	SASKATCHEWAN
2,223,541	117,058	1,655,171	1,539,386	209,663	3,404,220	407,541	6,152,360	SOUTH CAROLINA

N/A - Not Applicable

U/A - Unavailable

# ARL LIBRARY DATA TABLE

## COLLECTIONS

INSTITUTION	Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library	
		1	2	3	4	5	6	7	8	
SOUTHERN CALIFORNIA	BLM+	81	2,484,152	57,372	43,050	26,204	13,979	19,092	33,071	1,937,633
ILLINOIS	GL+	82	1,950,400	57,135	51,471	20,688	U/A	U/A	21,283	2,407,632
INDIANA	BLM+	83	5,598,363	167,055	150,494	U/A	U/A	U/A	49,780	2,974,699
MASSACHUSETTS	GB+	84	1,194,962	45,333	40,386	21,109	16,399	0	16,399	547,592
SUNY-BUFFALO	LM+	85	2,436,454	72,120	65,273	U/A	19,245	4,840	24,085	3,254,467
SUNY-STONY BROOK	GM+	86	1,566,698	45,382	44,201	27,060	U/A	U/A	12,331	2,561,817
SYRACUSE	bGL+	87	2,217,231	64,083	58,695	24,613	U/A	U/A	21,244	3,146,128
TEMPLE	BLM+	88	1,952,593	63,939	55,963	26,099	14,096	2,200	16,296	1,339,672
TENNESSEE	+	89	1,587,838	39,653	35,233	20,748	12,296	2,076	14,372	1,741,261
TEXAS	L+	90	5,753,629	179,838	174,303	U/A	U/A	U/A	79,772	3,839,532
UMINN	GM+	91	1,723,660	69,746	68,008	29,951	16,510	1,151	17,661	3,271,036
UNIVERSITY OF TORONTO	LM+	92	5,563,396	186,408	174,022	U/A	30,945	7,977	38,922	1,003,290
TULANE	GBLM+	93	1,682,060	54,497	51,473	24,116	U/A	U/A	15,480	1,699,685
UTAH	G+	94	1,646,550	58,866	58,084	U/A	U/A	U/A	14,348	2,245,158
VANDERBILT	GLM+	95	1,711,774	56,935	32,633	U/A	U/A	U/A	18,098	1,422,902
VIRGINIA	GLM+	96	2,902,823	102,177	90,656	71,947	20,880	2,609	23,489	3,783,903
WISCONSIN	+	97	1,593,757	50,541	48,396	24,191	17,440	2,600	20,040	4,110,249
WYOMING	LM+	98	4,658,911	158,790	109,797	31,604	U/A	U/A	55,590	4,693,784
WASHINGTON STATE	+	99	1,492,864	38,511	36,683	23,718	13,725	7,373	21,098	2,356,530
WASHINGTON U. ST. LOUIS	GLM+	100	2,120,974	49,487	40,955	23,628	17,524	360	17,884	1,516,826

B - Includes Branch Campuses  
 G - Government Documents Not Included in Serials Count

L - Includes Law Library  
 M - Includes Medical Library  
 N/A - Not Applicable

+ - See Footnotes  
 b - Bibliographic Count  
 U/A - Unavailable

## ARL LIBRARY DATA TABLE

Libr No	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
81	5,172	3,665	119	156	110	385	1,066,968	2,106,928	169,622	395,644
82	59,181	6,429	56	97	93	246	639,417	1,757,862	57,079	34,802
83	20,314	7,336	170	352	99	621	3,842,453	3,083,713	U/A	U/A
84	18,234	8,313	46	89	39	174	599,230	1,223,291	47,545	246,010
85	28,576	8,868	90	115	72	277	811,773	2,007,236	96,223	143,270
86	20,664	5,639	52	119	45	216	1,057,023	1,427,818	69,584	237,997
87	6,972	4,990	67	145	40	252	675,593	1,934,329	66,413	U/A
88	7,430	6,280	72	118	76	266	835,000	1,242,295	37,387	171,041
89	17,122	4,266	56	134	42	232	658,776	1,387,411	U/A	U/A
90	13,568	7,804	137	373	67	577	2,074,340	2,642,522	U/A	U/A
91	38,579	13,473	67	149	95	311	1,239,235	2,064,639	352,377	15,418
92	21,303	8,869	157	463	107	727	2,501,288	2,600,780	U/A	U/A
93	9,001	8,568	50	102	31	183	1,107,233	1,522,883	U/A	105,214
94	10,578	8,080	49	111	72	232	1,409,261	681,274	U/A	U/A
95	15,532	8,923	74	119	63	256	1,080,045	1,676,199	U/A	211,819
96	23,007	8,814	95	193	53	341	2,062,710	2,119,484	545,300	94,572
97	16,049	3,355	56	105	44	205	1,025,415	2,318,536	U/A	168,391
98	78,824	4,986	119	228	124	471	1,226,677	3,005,302	242,154	0
99	17,391	3,755	45	110	52	207	671,749	1,598,458	22,637	0
100	18,992	9,236	65	121	42	228	656,227	2,032,205	115,863	135,238

N/A - Not Applicable

U/A - Unavailable

## ARL LIBRARY DATA TABLE

### EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
3,739,162	143,303	3,277,367	2,336,731	607,423	6,221,521	2,581,672	12,685,658	SOUTHERN CALIFORNIA
2,489,160	108,788	1,803,322	1,466,804	682,259	3,952,385	608,397	7,158,730	SOUTHERN ILLINOIS
6,926,166	372,751	5,935,712	7,554,985	1,182,826	14,673,523	3,879,807	25,852,247	STANFORD
2,116,076	71,000	964,285	1,394,570	249,937	3,108,792	440,032	5,735,900	SUNY-ALBANY
3,058,479	144,605	2,670,908	1,854,928	556,501	5,082,337	1,067,258	9,352,679	SUNY-BUFFALO
2,792,422	114,899	1,716,302	1,804,668	273,719	3,794,689	566,981	7,268,991	SUNY-STONY BROOK
2,676,335	78,190	1,749,114	1,699,282	220,135	3,668,531	1,254,255	7,677,311	SYRACUSE
2,285,723	103,119	1,943,950	1,761,870	249,715	3,955,535	784,516	7,128,893	TEMPLE
2,046,187	105,521	1,549,243	1,593,351	287,388	3,429,982	327,425	5,909,115	TENNESSEE
4,716,862	169,359	3,354,933	4,602,757	797,269	8,754,959	2,616,890	15,258,070	TEXAS
3,671,669	136,561	1,676,969	1,695,682	660,702	4,033,353	1,181,031	9,022,614	TEXAS A&M
5,102,068	192,111	4,562,676	7,067,253	1,150,439	12,780,368	2,299,678	20,374,225	TORONTO
2,735,330	130,037	1,357,408	1,287,976	222,710	2,868,094	818,792	6,552,253	TULANE
2,090,535	115,841	1,086,172	1,585,313	549,110	3,220,595	1,387,691	6,814,662	UTAH
2,968,063	116,779	1,831,082	1,766,313	313,173	3,910,568	1,592,651	8,588,061	VANDERBILT
4,822,066	215,521	2,717,308	2,945,845	600,114	6,263,267	1,957,737	13,258,591	VIRGINIA
3,512,342	119,645	1,230,159	1,460,868	277,673	2,968,700	794,217	7,394,904	VPI & SU
4,474,133	280,441	3,180,022	4,036,630	914,023	8,130,675	3,155,981	16,041,230	WASHINGTON
2,292,844	87,910	1,169,415	1,873,181	443,400	3,485,996	906,321	6,773,071	WASHINGTON STATE
2,939,533	111,401	1,844,258	1,683,239	271,055	3,798,552	1,944,153	8,793,639	WASHINGTON U-ST. LOUIS

N/A - Not Applicable

U/A - Unavailable

## ARL LIBRARY DATA TABLE

### COLLECTIONS

INSTITUTION	Libr No.	Volumes	Volumes	Volumes	Mono-	Current	Current	Current	Total	
		In Library	Added (Gross)	Added (Net)	graphs Purchased	Serials Purchased	Serials Not Purchased	Serials Total	Microform Units In Library	
		1	2	3	4	5	6	7	8	
WATERLOO	B+	101	1,533,271	64,747	64,747	27,214	9,525	5,475	15,000	696,187
WAYNE STATE	BLM+	102	2,179,666	61,745	50,274	28,836	16,436	7,338	23,774	1,845,449
WESTERN ONTARIO	LM+	103	1,895,089	60,069	48,916	31,422	U/A	U/A	19,375	1,883,430
WISCONSIN	LM+	104	4,713,250	101,202	89,208	U/A	U/A	U/A	50,607	2,907,495
YALE	bGLM+	105	8,391,707	160,953	155,028	133,383	35,712	20,700	56,412	2,613,359
YORK	GBL+	106	1,646,482	57,499	54,521	U/A	U/A	U/A	18,598	664,235
BOSTON PUBLIC LIBRARY	G+	107	5,806,895	239,516	239,305	155,788	16,049	U/A	16,049	3,425,144
CANADA INST. FOR SCITECH.	B+	108	2,074,181	90,717	90,717	28,217	28,750	2,500	31,250	2,175,000
CENTER FOR RESEARCH LIB.	G+	109	2,861,183	30,711	30,711	U/A	13,836	0	13,836	1,082,081
LIBRARY OF CONGRESS	L+	110	20,957,228	288,690	279,425	111,065	37,500	137,500	175,000	7,012,227
LINDA HALL LIBRARY	G+	111	594,950	17,800	10,000	9,200	11,000	2,140	13,140	42,000
NATL. AGRICULTURAL LIB.	B+	112	1,873,874	13,771	13,771	4,676	9,000	18,000	27,000	775,310
NATL. LIBRARY OF CANADA	G+	113	1,131,621	51,595	50,705	7,573	6,553	14,271	20,824	2,618,700
NATL. LIBRARY OF MEDICINE	M+	114	1,821,644	41,918	39,406	11,540	22,751	4,086	26,837	233,000
NEWBERRY LIBRARY	G+	115	1,412,162	9,616	9,608	6,149	U/A	U/A	7,000	246,428
NEW YORK PUBLIC LIBRARY	+	116	6,056,320	91,375	83,764	U/A	U/A	U/A	147,375	2,559,137
NEW YORK STATE LIBRARY	LM+	117	2,009,562	30,643	30,542	17,082	9,932	8,750	18,682	3,858,136
SMITHSONIAN INSTITUTION	B+	118	1,018,165	21,240	17,544	10,000	3,814	13,000	16,814	U/A

B - Includes Branch Campuses  
 G - Government Documents Not Included in Serials Count

L - Includes Law Library  
 M - Includes Medical Library  
 N/A - Not Applicable

+ - See Footnotes  
 b - Bibliographic Count  
 U/A - Unavailable

## ARL LIBRARY DATA TABLE

Libr No	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
101	5,141	5,315	43	141	22	206	692,250	1,224,673	27,088	U/A
102	20,359	2,679	58	111	86	255	699,054	1,671,426	890,523	U/A
103	9,305	5,393	54	201	49	304	793,791	1,829,617	U/A	U/A
104	79,662	11,653	132	217	145	494	1,648,909	2,533,524	316,517	514,942
105	9,742	6,884	191	396	92	679	1,845,600	2,649,500	577,200	1,361,800
106	7,258	3,753	50	134	57	241	906,657	1,167,845	95,128	131,199
107	29,803	715	226	390	39	655	4,077,117	1,153,000	642,716	0
108	343,070	N/A	79	132	12	223	1,383,111	4,098,641	110,957	578,199
109	24,727	0	21	29	13	63	U/A	U/A	323,321	0
110	61,258	588	2,733	2,234	N/A	4,967	1,793,569	2,385,081	1,428,298	106,602
111	66,435	87	23	38	N/A	61	195,494	1,126,273	U/A	53,100
112	98,855	22,988	96	83	11	190	\$ 267,691	\$ 946,709	U/A	U/A
113	85,024	1,223	209	321	U/A	530	417,972	355,013	1,095,577	33,871
114	135,754	205	144	109	20	273	493,921	2,085,887	192,033	0
115	775	595	49	55	U/A	104	519,561	148,957	U/A	0
116	5,859	1,863	250	414	144	808	1,748,105	3,496,261	U/A	U/A
117	31,020	1,660	80	119	N/A	199	599,477	1,426,770	U/A	N/A
118	7,500	15,906	53	64	N/A	117	561,000	\$24,380	105,500	625,000

N/A - Not Applicable

U/A - Unavailable

## ARL LIBRARY DATA TABLE

### EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
1,944,011	57,493	1,788,323	1,991,348	188,980	3,469,651	455,636	5,925,791	WATERLOO
3,261,903	105,100	1,833,092	2,035,000	528,451	4,396,543	2,105,446	9,868,092	WAYNE STATE
2,623,408	119,437	1,462,673	2,481,820	499,029	4,443,522	377,401	7,563,768	WESTERN ONTARIO
5,013,892	241,612	4,018,138	4,114,297	1,152,220	9,284,655	2,713,727	17,253,886	WISCONSIN
6,434,100	303,700	5,623,400	5,480,400	713,600	11,817,400	3,306,100	21,855,300	YALE
2,300,820	144,002	1,539,614	2,139,216	434,460	4,113,290	993,969	7,552,081	YORK
5,872,833	0	U/A	U/A	U/A	13,130,348	5,188,350	24,191,531	BOSTON PUBLIC LIBRARY
6,170,908	99,941	2,709,014	2,720,730	43,738	5,473,482	5,913,313	17,657,644	CANADA INST. FOR SCITECH.
532,387	0	619,314	379,967	103,931	1,103,212	1,216,033	2,851,632	CENTER FOR RESEARCH LIB.
5,713,550	1,025,817	U/A	U/A	U/A	148,156,000	120,634,633	275,530,000	LIBRARY OF CONGRESS
1,374,867	55,629	U/A	U/A	U/A	1,129,286	274,904	2,834,686	LINDA HALL LIBRARY
\$1,214,400	13,000	3,358,106	2,128,982	150,000	5,637,388	\$4,233,212	11,098,000	NATL. AGRICULTURAL LIB.
1,902,433	16,001	5,574,114	7,929,190	279,108	13,783,072	9,028,133	24,729,639	NATL. LIBRARY OF CANADA
2,771,841	140,000	U/A	U/A	U/A	6,768,264	7,936,407	17,616,512	NATL. LIBRARY OF MEDICINE
668,518	74,328	U/A	U/A	U/A	2,210,212	2,828,402	5,781,460	NEWBERRY LIBRARY
5,244,366	571,174	U/A	U/A	U/A	12,665,852	5,555,248	24,036,640	NEW YORK PUBLIC LIBRARY
2,026,247	91,398	2,249,744	1,763,426	U/A	4,013,170	1,277,186	7,408,001	NEW YORK STATE LIBRARY
1,815,890	106,000	1,139,221	1,096,886	U/A	2,836,107	418,839	5,176,826	SMITHSONIAN INSTITUTION

U/A - Not Applicable

U/A - Unavailable

# ARL LIBRARY DATA TABLE

## TOTALS

### COLLECTIONS

Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Monographs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
1	2	3	4	5	6	7	8
UNIVERSITY MEDIAN							
2,069,888	63,760	58,389	29,644	16,683	3,508	20,959	2,024,706
UNIVERSITY HIGH							
11,284,170	257,027	195,319	133,383	42,990	32,806	102,000	4,693,784
UNIVERSITY LOW							
1,103,752	30,133	18,554	4,499	6,849	0	7,349	154,940
TOTALS - UNIVERSITY LIBRARIES							
280,363,262	8,471,884	7,372,926	2,831,134	1,212,600	357,596	2,914,425	223,826,983
TOTALS - NON-UNIVERSITY LIBRARIES							
47,617,625	927,592	895,498	361,290	159,185	200,247	513,807	24,027,163
GRAND TOTALS - ALL ARL LIBRARIES							
327,980,887	9,399,476	8,268,424	3,192,424	1,371,785	557,843	3,428,236	247,854,146

# ARL LIBRARY DATA TABLE

## TOTALS

INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
9	10	11	12	13	14	15	16	17	18
UNIVERSITY MEDIAN									
16,608	7,361	68	134	63	265	1,065,726	1,769,353	121,777	96,448
UNIVERSITY HIGH									
132,002	157,645	327	577	288	1,030	4,274,884	3,940,596	1,178,451	1,361,800
UNIVERSITY LOW									
2,666	964	33	46	7	112	232,919	681,274	7,072	0
TOTALS - UNIVERSITY LIBRARIES									
2,342,269	998,592	8,560	17,159	7,726	33,445	129,672,070	195,307,559	15,083,669	10,530,954
TOTALS - NON-UNIVERSITY LIBRARIES									
890,080	45,825	3,963	3,988	239	8,190	12,052,648	18,751,342	3,898,402	1,396,772
GRAND TOTALS - ALL ARL LIBRARIES									
3,232,349	1,044,417	12,523	21,147	7,965	41,635	141,724,718	214,058,901	18,982,071	11,927,726

# ARL LIBRARY DATA TABLE

## TOTALS

### EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.
19	20	21	22	23	24	25	26
UNIVERSITY MEDIAN							
3,083,287	143,652	1,879,872	1,999,089	494,702	4,390,277	1,191,640	9,006,307
UNIVERSITY HIGH							
9,412,545	694,503	9,582,966	8,844,034	2,278,731	19,393,865	5,291,826	34,792,739
UNIVERSITY LOW							
1,283,696	38,181	964,285	530,263	101,122	1,918,567	136,822	4,154,159
TOTALS - UNIVERSITY LIBRARIES							
359,638,171	19,040,108	230,646,695	246,529,160	56,067,949	576,357,886	151,215,194	1,106,251,359
TOTALS - NON-UNIVERSITY LIBRARIES							
36,308,230	2,193,288	16,250,473	16,019,181	576,777	216,906,393	163,504,660	418,912,571
GRAND TOTALS - ALL ARL LIBRARIES							
395,946,401	21,233,396	246,897,168	262,548,341	56,644,726	793,264,279	314,719,854	1,525,163,930

## ANALYSIS OF SELECTED VARIABLES OF UNIVERSITY LIBRARIES

The percentages and ratios below are intended to summarize the basic data in the ARL Library Data Tables. The high, median, and low figures indicate the range as well as the midpoint for ARL's 106 university library members.

Category	High	Median	Low
1. Professional Staff as percent of Total Staff	42	25	18
2. Nonprofessional Staff as percent of Total Staff	73	51	15
3. Student Assistant Staff as percent of Total Staff	55	24	3
4. Ratio of Professional Staff to Non-professional Staff (excluding student assistants)	1.9:1	0.5:1	0.2:1
5. Ratio of Items Loaned to Items Borrowed	15.8:1	2.1:1	0.5:1
6. Serials Expenditures as percent of Materials Expenditures	75	56	32
7. Materials Expenditures as percent of Total Operating Expenditures	49	34	20
8. Contract Binding as percent of Total Operating Expenditures	3.2	1.6	0.5
9. Salary and Wage Expenditures as percent of Total Operating Expenditures	65	51	40
10. Other Operating Expenditures as percent of Total Operating Expenditures	26	13	3
11. Unit cost of monographs (per volume)	53.05	31.79	13.84
12. Unit cost of serials (per title)	160.94	102.49	54.34

Median figures are useful indicators when there is wide dispersion within a distribution. Because the mean represents a "balance point," a few very high or low scores may sometimes pull the mean away from the actual point at which values cluster. Medians, on the other hand, are a measure of central tendency, focusing on the midpoint in a distribution, and are thus preferable for describing ARL libraries.

## Ph.D., FACULTY, AND ENROLLMENT STATISTICS\*

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	ENROLLMENTS - FALL 1986			
				Total Full-time**	Total FTE Part-time**	Graduate Full-time	Graduate FTE Part-time
ALABAMA +	68	42	702	12,065	1,261	1,539	1,345
ALBERTA	178	55	1,748	24,302	4,710	2,775	1,098
ARIZONA	325	93	1,328	24,648	8,793	4,187	4,230
ARIZONA STATE	118	35	1,245	26,505	15,037	3,276	7,181
BOSTON	154	44	918	19,775	7,726	5,772	3,718
BRIGHAM YOUNG	53	36	1,297	22,207	8,019	1,886	1,310
BRITISH COLUMBIA	144	83	1,932	20,816	4,118	3,037	912
BROWN	145	31	490	7,066	384	1,559	87
CALIF., BERKELEY	727	118	1,471	28,181	3,282	7,413	901
CALIF., DAVIS	245	54	939	19,517	2,000	5,259	200
CALIF., IRVINE +	125	30	978	14,532	0	2,652	0
CALIF., LOS ANGELES	431	68	1,551	31,885	1,199	7,967	42
CALIF., RIVERSIDE	88	26	440	5,163	563	1,337	90
CALIF., SAN DIEGO +	162	41	865	15,255	781	1,826	86
CALIF., SANTA BARBARA	175	57	1,015	17,420	583	2,026	100
CASE WESTERN RESERVE	162	55	496	5,955	2,353	3,255	1,837
CHICAGO	319	64	1,165	8,131	1,524	5,158	1,480
CINCINNATI +	186	87	1,038	20,023	10,714	3,677	2,693
COLORADO	230	44	924	20,557	2,569	3,279	898
COLORADO STATE	173	35	925	16,050	2,231	1,762	811
COLUMBIA	315	54	1,834	14,149	4,611	9,073	1,721
CONNECTICUT	174	66	1,561	16,675	6,982	2,510	3,779
CORNELL	432	90	1,523	17,538	40	5,259	22
DARTMOUTH	35	11	761	4,598	29	1,045	2
DELAWARE	96	40	816	14,257	4,374	1,160	895
DUKE	151	38	1,681	10,420	54	4,875	296
EMORY +	94	43	626	7,727	1,441	2,796	1,306
FLORIDA +	303	65	2,810	23,680	4,008	5,547	1,859
FLORIDA STATE +	226	65	998	18,020	5,009	2,865	2,215
GEORGETOWN	65	16	1,108	9,561	2,406	4,099	2,099
GEORGIA	195	53	1,677	21,695	4,003	2,790	1,796
GEORGIA TECH	88	61	537	10,389	1,105	1,981	573
GUELPH	55	U/A	716	10,736	690	993	52
HARVARD +	434	47	1,093	6,616	753	9,132	575
HAWAII	130	38	1,125	13,420	5,498	2,623	2,941
HOUSTON	63	52	1,238	15,858	13,184	3,678	6,643
HOWARD	63	24	1,189	7,372	4,742	1,666	1,499
ILLINOIS	571	83	2,036	35,052	3,278	6,864	2,267
INDIANA	265	99	1,391	27,438	2,304	4,583	2,675
IOWA	273	55	1,612	23,082	7,588	5,246	3,837
IOWA STATE	296	87	1,294	23,217	3,856	2,671	2,014
JOHNS HOPKINS +	190	60	628	5,502	6,107	2,851	1,488
KANSAS +	217	63	1,466	21,875	6,382	3,429	4,351

\* These figures were reported on ARL questionnaires and have not been verified with the Center for Statistics

\*\* Includes both undergraduate and graduate students.

U/A - Unavailable

+ - See footnotes

## Ph.D., FACULTY, AND ENROLLMENT STATISTICS\*

### ENROLLMENTS - FALL 1986

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	Total		Graduate	
				Full-time**	Part-time**	Full-time	Part-time
KENT STATE	132	18	720	14,992	5,854	1,256	2,952
KENTUCKY	118	47	1,509	15,965	4,727	2,637	1,911
LAVAL	133	58	1,491	21,839	10,596	3,495	2,607
LOUISIANA STATE	148	53	1,229	23,426	4,995	2,536	1,637
MCGILL	188	50	1,751	17,425	3,468	3,692	790
MCMASTER	72	26	1,001	11,058	4,081	1,156	909
MANITOBA	71	37	1,296	13,191	7,131	1,747	969
MARYLAND +	378	68	1,320	28,664	9,975	3,418	4,859
MASSACHUSETTS +	213	48	1,281	21,814	5,987	2,801	3,868
MIT	416	85	1,104	9,231	525	4,860	452
MIAMI	93	45	1,426	10,951	2,432	3,264	1,338
MICHIGAN	589	136	2,293	30,779	1,756	9,779	2,678
MICHIGAN STATE	436	156	1,905	34,952	9,136	4,648	5,320
MINNESOTA	556	118	1,730	35,578	30,376	12,006	3,242
MISSOURI	181	61	908	18,641	4,086	1,758	2,180
NEBRASKA	203	29	1,161	18,331	5,568	2,103	2,076
NEW MEXICO +	136	35	1,121	13,427	7,997	1,635	5,329
NEW YORK +	365	151	2,846	18,192	13,473	7,145	9,807
NORTH CAROLINA	294	59	1,965	18,929	3,897	4,590	2,878
NORTH CAROLINA STATE	182	42	1,425	16,994	7,564	1,326	2,211
NORTHWESTERN	293	78	1,349	12,984	3,242	5,287	1,594
NOÏRE DAME	99	23	693	9,301	483	1,765	405
OHIO STATE	563	87	1,903	42,779	11,109	5,956	4,247
OKLAHOMA	121	45	1,396	17,493	7,199	2,302	2,958
OKLAHOMA STATE	132	37	779	17,029	3,825	1,554	2,477
OREGON	131	42	964	14,632	2,510	2,748	1,037
PENNSYLVANIA +	333	108	3,852	17,192	4,550	5,905	1,845
PENNSYLVANIA STATE	326	90	2,510	49,692	14,414	3,960	4,268
PITTSBURGH +	376	78	2,275	17,727	10,635	3,654	4,693
PRINCETON	218	42	649	6,232	0	1,672	0
PURDUE	369	68	1,418	28,408	1,217	3,645	501
QUEEN'S	93	27	958	11,470	3,610	1,641	495
RICE	93	26	425	4,042	0	1,273	0
ROCHESTER	165	50	1,195	6,918	1,943	1,904	1,522
RUTGERS	258	48	1,871	31,496	15,567	2,953	8,047
SASKATCHEWAN +	42	U/A	1,127	13,766	7,001	1,092	315
SOUTH CAROLINA	137	49	1,172	15,775	7,190	3,451	4,963
SOUTHERN CALIFORNIA +	363	67	1,173	19,678	11,153	5,167	8,525
SOUTHERN ILLINOIS	143	22	964	18,709	4,737	930	2,800
STANFORD	545	77	1,284	11,856	1,436	5,285	1,436
SUNY-ALBANY	74	21	668	10,350	1,564	1,759	1,110
SUNY-BUFFALO +	233	65	1,074	19,241	7,730	5,178	3,405
SUNY-STONY BROOK	173	22	1,028	12,654	3,512	2,778	2,109

\* These figures were reported on ARL questionnaires and have not been verified with the Center for Statistics

\*\* Includes both undergraduate and graduate students.

U/A - Unavailable

+ - See footnotes

Ph.D., FACULTY, AND ENROLLMENT STATISTICS\*

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	ENROLLMENTS - FALL 1986			
				Total Full-time**	Total FTE Part-time**	Graduate Full-time	Graduate FTE Part-time
SYRACUSE +	136	83	916	15,284	5,836	2,943	4,072
TEMPLE	197	49	1,662	19,739	10,876	1,810	4,899
TENNESSEE	200	50	1,106	19,359	6,483	3,119	3,145
TEXAS	610	74	1,977	40,375	5,765	9,670	1,463
TEXAS A&M	367	72	1,524	32,153	4,417	4,650	2,219
TORONTO	340	70	2,718	34,329	16,730	5,470	3,364
TULANE	55	35	418	8,277	2,065	3,177	522
UTAH	183	60	937	15,265	9,456	3,192	1,143
VANOERBILT +	120	37	1,390	8,074	809	2,960	686
VIRGINIA	188	44	965	16,150	5,465	5,050	4,206
VPI & SU +	217	56	1,493	21,078	3,559	3,348	2,909
WASHINGTON	411	62	1,617	26,928	6,746	6,501	2,089
WASHINGTON STATE	152	40	737	14,832	1,361	1,839	600
WASHINGTON U-ST. LOUIS	96	47	567	7,132	1,851	2,740	1,500
WATERLOO	107	48	785	12,548	9,505	3,358	405
WAYNE STATE	156	54	1,250	13,908	9,332	4,494	5,524
WESTERN ONTARIO	100	51	1,405	15,346	3,133	2,307	179
WISCONSIN	603	120	2,120	37,279	7,305	8,978	4,367
YALE +	254	56	1,536	10,356	302	5,209	302
YORK	68	55	1,131	19,859	13,770	1,671	1,410

\* These figures were reported on ARL questionnaires and have not been verified with the Center for Statistics

\*\* Includes both undergraduate and graduate students.

U/A - Unavailable

+ - See footnotes

## SUMMARY OF RANK ORDER TABLES FOR UNIVERSITY LIBRARIES

The table below presents the rank for each university library in each of the seventeen categories for which rank order tables are prepared. As a further indication of the relative position of each institution, note that, in the individual rank order tables on the following pages, "group codes" are used. This is done because, in a number of cases, there is a relatively insignificant difference between two institutions which are nevertheless given two different rankings. The "coarser" ranking provided by clustering institutions into groups (based upon ranges) more realistically describes a library's relative standing.

The table numbers in the chart below refer to the following categories:

- |   |  |
|---|--|
| Table 1 - Volumes in Library (106)            | Table 10 - Expenditures For Monographs (104) |
| Table 2 - Volumes Added (Gross) (106)         | Table 11 - Serials Purchased (Titles) (65)   |
| Table 3 - Current Serials (Total) (106)       | Table 12 - Expenditures for Serials (105)    |
| Table 4 - Microform Holdings (Total) (106)    | Table 13 - Total Items Loaned (106)          |
| Table 5 - Materials Expenditures (106)        | Table 14 - Total Items Borrowed (106)        |
| Table 6 - Salaries & Wages Expenditures (106) | Table 15 - Professional Staff (FTE) (106)    |
| Table 7 - Other Operating Expenditures (106)  | Table 16 - Nonprofessional Staff (FTE) (106) |
| Table 8 - Total Expenditures (106)            | Table 17 - Total Staff (FTE) (106)           |
| Table 9 - Monographs Purchased (Volumes) (78) |  |

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ALABAMA	74	97	77	83	82	103	94	101	65	80	32	79	97	84	81	101	97
ALBERTA	30	26	47	41	52	18	49	30	27	79	20	21	60	8	36	11	22
ARIZONA	23	22	27	13	20	32	56	29	5	35	8	10	8	56	27	32	29
ARIZONA STATE	45	13	28	32	19	42	40	31	U/A	7	U/A	40	19	25	36	27	31
BOSTON	82	79	30	37	65	58	27	54	61	65	29	57	40	2	60	47	48
BRIGHAM YOUNG	62	54	72	73	64	59	66	3	3	32	57	91	87	17	31	106	43
BRITISH COLUMBIA	31	29	44	96	33	20	68	28	11	18	26	39	46	23	24	14	19
BROWN	54	85	87	91	86	74	20	60	22	55	50	89	66	79	45	87	63
CALIF., BERKELEY	4	3	2	9	6	2	5	3	U/A	4	U/A	2	10	3	4	7	2
CALIF., DAVIS	50	31	13	36	22	24	51	24	12	20	2	16	17	50	51	26	35
CALIF., IRVINE	99	48	78	85	50	44	45	46	33	56	38	48	69	41	76	83	75
CALIF., LOS ANGELES	8	1	4	6	2	3	2	2	U/A	1	U/A	4	6	40	2	8	3
CALIF., RIVERSIDE	100	78	96	87	85	76	83	80	24	60	60	97	94	38	105	86	96
CALIF., SAN DIEGO	64	40	58	84	36	27	34	27	14	14	U/A	76	56	58	50	38	40
CALIF., SANTA BARBARA	65	57	84	51	44	33	57	42	U/A	37	U/A	56	95	26	68	51	67

U/A - Unavailable

( ) Number of institutions reporting data

TABLES

INSTITUTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
CASE WESTERN RESERVE	94	101	94	103	99	89	76	97	70	99	51	85	11	66	56	99	98
CHICAGO	11	18	11	77	27	31	10	21	7	13	U/A	28	13	61	45	28	33
CINCINNATI	88	76	62	55	51	40	29	40	U/A	39	U/A	43	26	30	43	51	44
COLORADO	51	67	95	89	72	65	92	74	55	87	52	55	53	35	87	91	87
COLORADO STATE	106	104	99	106	101	102	79	102	76	98	64	103	71	12	96	103	105
COLUMBIA	7	14	16	11	9	7	7	7	23	8	16	12	43	64	8	6	6
CONNECTICUT	53	50	48	43	63	48	65	56	U/A	36	U/A	66	29	19	60	89	74
CORNELL	12	11	7	3	7	12	9	10	U/A	U/A	U/A	U/A	31	16	6	9	11
DARTMOUTH	78	63	57	57	77	94	67	86	U/A	74	34	67	74	62	97	83	94
DELAWARE	67	77	46	71	47	95	59	70	U/A	17	U/A	81	88	94	76	76	82
DUKE	19	27	19	86	25	34	47	32	18	23	13	25	21	83	28	33	39
EMORY	57	65	68	69	48	56	39	52	U/A	41	U/A	68	37	73	60	55	61
FLORIDA	33	37	29	29	32	35	55	35	20	27	11	53	14	52	25	36	21
FLORIDA STATE	77	92	73	35	53	92	100	79	U/A	33	42	70	35	70	70	93	69
GEORGETOWN	84	49	53	68	58	49	41	51	31	43	25	86	101	74	47	58	46
GEORGIA	34	25	9	10	31	46	43	39	N/A	61	1	9	20	75	40	30	24
GEORGIA TECH	92	47	32	27	105	106	84	106	78	104	24	101	64	102	87	105	106
GUELPH	73	43	103	90	103	101	106	104	60	100	U/A	102	106	99	106	80	103
HARVARD	1	2	1	2	1	1	1	1	U/A	2	U/A	1	15	42	1	1	1
HAWAII	49	39	23	44	79	53	61	62	U/A	68	10	75	82	105	56	91	79
HOUSTON	93	96	43	20	81	97	88	94	59	97	18	59	63	45	93	98	101
HOWARD	83	33	35	38	28	47	70	44	28	30	14	19	105	106	40	61	55
ILLINOIS	3	4	3	18	17	14	26	16	4	19	U/A	8	2	1	9	10	10
INDIANA	18	16	20	82	24	25	35	23	17	22	5	27	16	29	19	18	12
IOWA	27	28	34	22	23	54	62	47	2	16	15	34	7	48	38	87	56

U/A - Unavailable

( ) Number of institutions reporting data

TABLES

INSTITUTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
IOWA STATE	72	75	59	54	69	86	102	84	49	69	44	52	34	85	91	81	87
JOHNS HOPKINS	29	38	60	79	42	38	30	37	21	49	40	47	55	5	31	31	27
KANSAS	32	45	36	59	37	50	25	43	19	31	28	36	12	4	33	65	45
KENT STATE	81	106	106	98	106	77	38	89	62	103	65	10	76	53	97	95	92
KENTUCKY	56	79	55	53	59	66	46	59	58	67	U/A	58	44	24	56	62	52
LAVAL	85	68	92	99	91	36	80	58	57	82	50	90	75	27	51	24	51
LOUISIANA STATE	42	58	41	80	39	68	86	61	36	50	23	26	89	91	63	70	47
MCGILL	40	56	69	97	43	26	53	34	25	62	43	87	18	50	43	21	35
MCMASTER	103	89	101	105	74	84	98	83	38	44	58	77	77	59	103	50	91
MANITOBA	97	103	98	95	102	61	97	90	74	102	56	88	73	86	70	40	68
MARYLAND	63	34	45	12	41	37	31	36	30	45	21	46	66	101	39	44	37
MASSACHUSETTS	46	44	82	72	13	55	82	48	26	26	46	69	68	55	70	59	69
MIT	55	81	49	70	80	43	37	50	64	83	62	72	59	98	33	43	50
MIAMI	89	83	79	94	67	72	48	64	40	53	U/A	63	45	21	51	62	63
MICHIGAN	5	12	6	15	4	9	17	8	U/A	U/A	4	3	32	20	11	13	9
MICHIGAN STATE	38	30	64	76	40	39	44	41	16	24	39	51	78	82	42	55	38
MINNESOTA	15	19	18	28	16	11	4	9	U/A	25	7	7	1	11	13	33	18
MISSOURI	41	84	76	4	89	90	63	85	72	77	49	83	25	57	64	57	60
NEBRASKA	61	62	39	52	61	98	91	87	47	78	U/A	30	79	77	79	78	84
NEW MEXICO	102	102	102	24	94	75	75	82	51	92	U/A	98	90	78	89	81	66
NEW YORK	24	41	24	48	30	19	13	18	29	46	9	24	84	37	22	29	28
NORTH CAROLINA	21	15	15	30	14	21	28	19	10	12	12	20	27	92	16	22	20
NORTH CAROLINA STATE	104	74	88	26	62	78	81	73	34	72	53	62	28	90	93	62	75
NORTHWESTERN	22	36	25	61	56	30	52	38	32	64	U/A	38	50	18	20	42	30
NOTRE DAME	66	70	83	88	76	99	74	91	44	57	U/A	92	52	34	101	72	95

U/A - Unavailable

( ) Number of institutions reporting data

TABLES

INSTITUTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
OHIO STATE	16	21	26	23	12	17	18	15	9	9	17	11	23	14	16	20	17
OKLAHOMA	47	95	75	34	84	100	87	98	71	94	33	65	24	6	86	100	89
OKLAHOMA STATE	96	105	104	101	104	104	93	105	77	101	63	100	85	89	97	104	102
OREGON	68	60	56	67	75	91	89	88	13	63	41	84	72	67	82	97	81
PENNSYLVANIA	20	32	33	92	45	22	24	26	U/A	42	U/A	32	61	9	20	37	26
PENNSYLVANIA STATE	26	10	31	25	29	16	16	17	U/A	29	U/A	18	38	22	18	12	16
PITTSBURGH	28	35	42	50	49	41	15	33	U/A	48	U/A	42	58	46	33	35	34
PRINCETON	17	20	21	49	15	23	32	20	8	6	U/A	45	96	68	23	17	25
PURDUE	69	55	54	66	70	67	77	71	73	81	27	44	80	63	65	44	54
QUEEN'S	76	98	85	74	83	83	105	92	45	70	U/A	80	104	71	101	39	77
RICE	98	90	100	62	98	105	78	103	U/A	76	U/A	99	65	103	97	102	104
ROCHESTER	35	91	93	46	55	71	69	65	69	59	55	50	30	49	68	78	78
RUTGERS	39	17	66	39	26	8	33	14	15	28	U/A	23	54	13	26	15	15
SASKATCHEWAN	101	88	105	64	93	88	104	100	75	95	U/A	74	83	10	104	59	98
SOUTH CAROLINA	43	66	65	45	92	82	99	93	63	86	U/A	71	67	72	65	72	89
SOUTHERN CALIFORNIA	36	71	22	56	34	29	14	25	46	52	47	31	102	97	14	41	23
SOUTHERN ILLINOIS	59	72	50	40	78	63	85	75	68	93	U/A	54	5	65	70	94	62
STANFORD	9	7	14	19	3	4	3	4	U/A	3	U/A	5	42	54	5	5	7
SUNY-ALBANY	105	94	80	104	95	87	96	99	65	96	37	95	48	43	89	96	98
SUNY-BUFFALO	37	42	37	15	54	45	58	49	U/A	73	22	37	22	33	30	70	49
SUNY-STONY BROOK	90	93	97	33	66	70	90	72	43	54	U/A	78	39	76	80	67	80
SYRACUSE	44	52	51	17	71	73	50	66	50	88	U/A	41	100	87	54	48	59
TEMPLE	58	53	81	81	90	62	73	76	48	71	45	93	98	69	49	69	52
TENNESSEE	87	99	90	63	97	81	103	96	67	90	54	82	51	93	70	53	71
TEXAS	6	6	5	7	16	13	12	12	U/A	10	U/A	14	70	47	9	4	8

U/A - Unavailable

( ) Number of institutions reporting data



TABLES

INSTITUTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
TEXAS A&M	70	46	74	14	35	60	54	53	39	38	35	33	9	7	54	44	41
TORONTO	10	5	17	93	8	5	19	6	U/A	5	6	15	36	32	7	2	4
TULANE	75	82	86	65	68	96	71	61	53	47	U/A	73	93	39	82	89	92
UTAH	79	64	91	47	96	85	42	77	U/A	34	U/A	105	81	44	85	72	71
VANDERBILT	71	73	70	78	57	64	36	57	U/A	51	U/A	60	62	31	47	67	57
VIRGINIA	25	23	40	8	11	28	22	22	6	11	19	29	33	36	28	24	32
VPI & SU	86	86	61	5	38	93	72	69	52	58	31	22	57	100	70	85	86
WASHINGTON	14	9	10	1	21	15	8	13	35	40	U/A	5	4	88	14	16	14
WASHINGTON STATE	95	100	52	42	88	79	64	78	54	89	48	64	49	95	91	76	82
WASHINGTON U-ST. LOUIS	52	87	71	75	60	69	23	55	56	91	30	35	47	28	59	65	73
WATERLOO	91	51	89	100	100	80	95	95	42	85	61	94	103	81	93	49	84
WAYNE STATE	48	59	38	60	46	52	21	45	41	84	36	61	41	104	67	72	58
WESTERN ONTARIO	60	61	63	58	73	51	101	67	37	75	U/A	49	91	80	76	23	42
WISCONSIN	13	24	12	21	10	10	11	11	U/A	21	U/A	17	3	15	12	19	13
YALE	2	8	8	31	5	6	6	5	1	15	3	13	92	60	3	3	5
YORK	80	69	67	102	87	57	60	68	U/A	66	U/A	96	99	96	82	53	65

U/A - Unavailable

( ) Number of institutions reporting data

## RANK ORDER TABLES OF UNIVERSITY LIBRARIES

# RANK ORDER TABLE 1: VOLUMES IN LIBRARY

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

- |                   |                |
|-------------------|----------------|
| 1- 9,000 and over | 6- 4,000-4,999 |
| 2- 8,000-8,999    | 7- 3,000-3,999 |
| 3- 7,000-7,999    | 8- 2,000-2,999 |
| 4- 6,000-6,999    | 9- 1,000-1,999 |
| 5- 5,000-5,999    |                |

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	HARVARD	11,284,170	51	51	COLORADO	2,146,136
2	2	YALE	8,391,707	52	52	WASHINGTON U-ST. LOUIS	2,120,974
3	3	ILLINOIS	7,190,443	53	53	CONNECTICUT	2,074,443
	4	CALIF., BERKELEY	7,031,934	54	54	BROWN	2,065,334
4	5	MICHIGAN	6,019,919	55	55	MIT	2,062,818
5	6	TEXAS	5,753,629	56	56	KENTUCKY	2,043,393
	7	COLUMBIA	5,625,925	57	57	EMORY	2,006,423
	8	CALIF., LOS ANGELES	5,625,521	9	58	TEMPLE	1,952,593
	9	STANFORD	5,598,363	59	59	SOUTHERN ILLINOIS	1,950,400
	10	TORONTO	5,563,356	60	60	WESTERN ONTARIO	1,895,089
6	11	CHICAGO	4,865,137	61	61	NEBRASKA	1,889,500
	12	CORNELL	4,818,377	62	62	BRIGHAM YOUNG	1,863,224
	13	WISCONSIN	4,713,250	63	63	MARYLAND	1,856,510
	14	WASHINGTON	4,658,911	64	64	CALIF., SAN DIEGO	1,810,844
	15	MINNESOTA	4,382,696	65	65	CALIF., SANTA BARBARA	1,806,039
	16	OHIO STATE	4,169,610	66	66	NOTRE DAME	1,794,564
7	17	PRINCETON	3,961,415	67	67	DELAWARE	1,778,915
	18	INDIANA	3,881,945	68	68	OREGON	1,765,633
	19	DUKE	3,591,197	69	69	PURDUE	1,746,862
	20	PENNSYLVANIA	3,442,389	70	70	TEXAS A&M	1,723,660
	21	NORTH CAROLINA	3,414,643	71	71	VANDERBILT	1,711,774
	22	NORTHWESTERN	3,270,365	72	72	IOWA STATE	1,708,592
	23	ARIZONA	3,239,055	73	73	GUELPH	1,706,238
8	24	NEW YORK	2,920,175	74	74	ALABAMA	1,693,117
	25	VIRGINIA	2,902,823	75	75	TULANE	1,682,060
	26	PENNSYLVANIA STATE	2,888,342	76	76	QUEEN'S	1,672,271
	27	IOWA	2,839,825	77	77	FLORIDA STATE	1,667,720
	28	PITTSBURGH	2,741,834	78	78	DARTMOUTH	1,664,847
	29	JOHNS HOPKINS	2,670,600	79	79	UTAH	1,646,550
	30	ALBERTA	2,658,752	80	80	YORK	1,646,482
	31	BRITISH COLUMBIA	2,639,439	81	81	KENT STATE	1,638,383
	32	KANSAS	2,620,805	82	82	BOSTON	1,622,336
	33	FLORIDA	2,605,601	83	83	HOWARD	1,618,259
	34	GEORGIA	2,604,601	84	84	GEORGETOWN	1,613,442
	35	ROCHESTER	2,549,057	85	85	LAVAL	1,595,553
	36	SOUTHERN CALIFORNIA	2,484,152	86	86	VPI & SU	1,593,757
	37	SUNY-BUFFALO	2,436,454	87	87	TENNESSEE	1,587,838
	38	MICHIGAN STATE	2,431,942	88	88	CINCINNATI	1,581,754
	39	RUTGERS	2,407,696	89	89	MIAMI	1,576,560
	40	MCGILL	2,390,943	90	90	SUNY-STONY BROOK	1,566,698
	41	MISSOURI	2,365,235	91	91	WATERLOO	1,533,271
	42	LOUISIANA STATE	2,270,617	92	92	GEORGIA TECH	1,532,193
	43	SOUTH CAROLINA	2,225,572	93	93	HOUSTON	1,526,291
	44	SYRACUSE	2,217,231	94	94	CASE WESTERN RESERVE	1,512,111
	45	ARIZONA STATE	2,215,376	95	95	WASHINGTON STATE	1,492,864
	46	MASSACHUSETTS	2,199,402	96	96	OKLAHOMA STATE	1,440,780
	47	OKLAHOMA	2,192,100	97	97	MANITOBA	1,431,307
	48	KAYNE STATE	2,179,666	98	98	RICE	1,323,470
	49	HAWAII	2,164,497	99	99	CALIF., IRVINE	1,306,730
	50	CALIF., DAVIS	2,159,570	100	100	CALIF., RIVERSIDE	1,303,872
				101	101	SASKATCHEWAN	1,300,773
				102	102	NEW MEXICO	1,276,889
				103	103	MCMASTER	1,258,534
				104	104	NORTH CAROLINA STATE	1,201,552
				105	105	SUNY-ALBANY	1,194,962
				106	106	COLORADO STATE	1,103,752

U/A - Unavailable

## RANK ORDER TABLE 2: VOLUMES ADDED (GROSS)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

- |                     |                    |
|---------------------|--------------------|
| 1- 250,000 and over | 6- 100,000-129,999 |
| 2- 220,000-249,999  | 7- 70,000- 99,999  |
| 3- 190,000-219,999  | 8- 40,000- 69,999  |
| 4- 160,000-189,999  | 9- under 39,999    |
| 5- 130,000-159,999  |                    |

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	CALIF., LOS ANGELES	257,027	51	51	WATERLOO	64,747
2	2	HARVARD	232,559	52	52	SYRACUSE	64,083
3	3	CALIF., BERKELEY	206,181	53	53	TEMPLE	63,939
	4	ILLINOIS	193,407	54	54	BRIGHAM YOUNG	63,582
4	5	TORONTO	186,408	55	55	PURDUE	63,237
	6	TEXAS	179,838	56	56	MCGILL	62,640
	7	STANFORD	167,055	57	57	CALIF., SANTA BARBARA	62,203
	8	YALE	160,953	58	58	LOUISIANA STATE	61,895
5	9	WASHINGTON	158,790	59	59	WAYNE STATE	61,745
	10	PENNSYLVANIA STATE	145,074	60	60	OREGON	60,452
	11	CORNELL	136,220	61	61	WESTERN ONTARIO	60,069
	12	MICHIGAN	135,011	62	62	NEBRASKA	59,785
6	13	ARIZONA STATE	122,690	63	63	DARTMOUTH	58,869
	14	COLUMBIA	121,276	64	64	UTAH	58,866
	15	NORTH CAROLINA	118,308	65	65	EMORY	58,707
	16	INDIANA	115,003	66	66	SOUTH CAROLINA	58,435
	17	RUTGERS	114,490	67	67	COLORADO	58,140
	18	CHICAGO	113,277	68	68	LAVAL	57,785
	19	MINNESOTA	112,850	69	69	YORK	57,499
	20	PRINCETON	109,948	70	70	NOTRE DAME	57,460
	21	OHIO STATE	109,546	71	71	SOUTHERN CALIFORNIA	57,372
	22	ARIZONA	104,623	72	72	SOUTHERN ILLINOIS	57,135
	23	VIRGINIA	102,177	73	73	VANDERBILT	56,985
	24	WISCONSIN	101,202	74	74	NORTH CAROLINA STATE	56,661
7	25	GEORGIA	93,871	75	75	IOWA STATE	55,895
	26	ALBERTA	93,512	76	76	CINCINNATI	55,650
	27	DUKE	92,215	77	77	DELAWARE	55,450
	28	IOWA	89,049	78	78	CALIF., RIVERSIDE	55,394
	29	BRITISH COLUMBIA	88,131	79	79	BOSTON	54,674
	30	MICHIGAN STATE	86,578	80	80	KENTUCKY	54,674
	31	CALIF., DAVIS	86,492	81	81	MIT	54,498
	32	PENNSYLVANIA	85,949	82	82	TULANE	54,497
	33	HOWARD	83,680	83	83	MIAMI	53,251
	34	MARYLAND	83,642	84	84	MISSOURI	53,129
	35	PITTSBURGH	82,076	85	85	BROWN	51,046
	36	NORTHWESTERN	80,511	86	86	VPI & SU	50,541
	37	FLORIDA	79,610	87	87	WASHINGTON U-ST. LOUIS	49,487
	38	JOHNS HOPKINS	78,204	88	88	SASKATCHEWAN	48,877
	39	HAWAII	77,653	89	89	MCMASTER	47,942
	40	CALIF., SAN DIEGO	74,428	90	90	RICE	47,935
	41	NEW YORK	72,755	91	91	ROCHESTER	47,245
42	SUNY-BUFFALO	72,120	92	92	FLORIDA STATE	45,718	
43	GUELPH	71,628	93	93	SUNY-STONY BROOK	45,382	
44	MASSACHUSETTS	71,030	94	94	SUNY-ALBANY	45,333	
45	KANSAS	70,925	95	95	OKLAHOMA	43,371	
8	46	TEXAS A&M	69,746	96	96	HOUSTON	41,561
	47	GEORGIA TECH	68,582	97	97	ALABAMA	40,867
	48	CALIF., IRVINE	68,400	98	98	QUEEN'S	40,470
	49	GEORGETOWN	66,530	99	99	TENNESSEE	39,653
	50	CONNECTICUT	65,403	100	100	WASHINGTON STATE	38,511
				101	101	CASE WESTERN RESERVE	35,812
				102	102	NEW MEXICO	35,190
				103	103	MANITOBA	34,692
				104	104	COLORADO STATE	34,281
				105	105	OKLAHOMA STATE	31,801
			106	106	KENT STATE	30,133	

U/A - Unavailable

### RANK ORDER TABLE 3: CURRENT SERIALS (TOTAL)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

- |                    |                  |
|--------------------|------------------|
| 1- 90,000 and over | 6- 40,000-49,999 |
| 2- 80,000-89,999   | 7- 30,000-39,999 |
| 3- 70,000-79,999   | 8- 20,000-29,999 |
| 4- 60,000-69,999   | 9- 10,000-19,999 |
| 5- 50,000-59,999   | 10- under 10,000 |

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	HARVARD +	102,000	52	52	WASHINGTON STATE +	21,099
	2	CALIF., BERKELEY +	99,065	53	53	GEORGETOWN	21,035
	3	ILLINOIS	93,913	54	54	PURDUE	20,884
	4	CALIF., LOS ANGELES +	93,467	55	55	KENTUCKY	20,759
				56	56	OREGON	20,536
3	5	TEXAS +	79,772	57	57	DARTMOUTH	20,414
				58	58	CALIF., SAN DIEGO	20,273
4	6	MICHIGAN +	67,115	59	59	IOWA STATE +	20,244
				60	60	JOHNS HOPKINS +	20,177
5	7	CORNELL +	58,722	61	61	VPI & SU +	20,040
	8	YALE	56,412				
	9	GEORGIA +	56,149	9	62	CINCINNATI	19,588
	10	WASHINGTON +	55,590	63	63	WESTERN ONTARIO +	19,375
	11	CHICAGO +	53,214	64	64	MICHIGAN STATE	19,175
	12	WISCONSIN +	50,607	65	65	SOUTH CAROLINA +	19,163
	13	CALIF., DAVIS +	50,004	66	66	RUTGERS	19,041
				67	67	YORK	18,598
6	14	STANFORD +	49,780	68	68	EMORY +	18,383
	15	NORTH CAROLINA +	44,797	69	69	MCGILL	18,262
	16	COLUMBIA +	42,779	70	70	VANDERBILT	18,098
				71	71	WASHINGTON U-ST. LOUIS	17,884
7	17	TORONTO +	38,922	72	72	BRIGHAM YOUNG +	17,847
	18	MINNESOTA +	38,630	73	73	FLORIDA STATE	17,699
	19	DUKE	34,452	74	74	TEXAS A&M	17,661
	20	INDIANA +	33,975	75	75	OKLAHOMA	17,417
	21	PRINCETON +	33,140	76	76	MISSOURI	17,407
	22	SOUTHERN CALIFORNIA +	33,071	77	77	ALABAMA	17,389
	23	HAWAII	32,989	78	78	CALIF., IRVINE	17,369
	24	NEW YORK +	32,493	79	79	MIAMI	16,487
	25	NORTHWESTERN +	32,304	80	80	SUNY-ALBANY	16,399
	26	OHIO STATE +	31,762	81	81	TEMPLE +	16,296
	27	ARIZONA +	31,423	82	82	MASSACHUSETTS	15,954
	28	ARIZONA STATE +	31,366	83	83	NOTRE DAME	15,871
				84	84	CALIF., SANTA BARBARA	15,600
8	29	FLORIDA	29,512	85	85	QUEEN'S	15,560
	30	BOSTON	29,177	86	86	TULANE	15,480
	31	PENNSYLVANIA STATE +	29,080	87	87	BROWN +	15,470
	32	GEORGIA TECH +	28,805	88	88	NORTH CAROLINA STATE	15,373
	33	PENNSYLVANIA +	28,435	89	89	WATERLOO +	15,000
	34	IOWA +	26,986	90	90	TENNESSEE +	14,372
	35	HOWARD	26,775	91	91	UTAH	14,348
	36	KANSAS	25,745	92	92	LAVAL +	14,142
	37	SUNY-BUFFALO +	24,085	93	93	ROCHESTER +	13,876
	38	WAYNE STATE +	23,774	94	94	CASE WESTERN RESERVE	13,854
	39	NEBRASKA +	23,511	95	95	COLORADO	13,755
	40	VIRGINIA	23,489	96	96	CALIF., RIVERSIDE +	13,615
	41	LOUISIANA STATE	23,327	97	97	SUNY-STONY BROOK	12,331
	42	PITTSBURGH +	23,098	98	98	MANITOBA	12,020
	43	HOUSTON	22,911	99	99	COLORADO STATE	12,018
	44	BRITISH COLUMBIA	22,833	100	100	RICE +	11,721
	45	MARYLAND	21,756	101	101	MCMASTER	11,198
	46	DELAWARE	21,637	102	102	NEW MEXICO	10,669
	47	ALBERTA +	21,422	103	103	GUELPH	10,219
	48	CONNECTICUT +	21,349	104	104	OKLAHOMA STATE	10,101
	49	MIT +	21,296	105	105	SASKATCHEWAN	10,092
	50	SOUTHERN ILLINOIS	21,283				
	51	SYRACUSE	21,244	10	106	KENT STATE	7,349

U/A - Unavailable      + - Includes government document serials

## RANK ORDER TABLE 4: MICROFORM HOLDINGS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 4,000 and over	5- 2,000-2,499
2- 3,500-3,999	6- 1,500-1,999
3- 3,000-3,499	7- 1,000-1,499
4- 2,500-2,999	8- under 1,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	WASHINGTON	4,693,784	6	54	IOWA STATE	1,957,937
	2	HARVARD	4,570,476		55	CINCINNATI	1,953,733
	3	CORNELL	4,293,561		56	SOUTHERN CALIFORNIA	1,937,633
	4	MISSOURI	4,198,365		57	DARTMOUTH	1,925,486
	5	VPI & SU	4,110,249		58	WESTERN ONTARIO	1,883,430
	6	CALIF., LOS ANGELES	4,098,607		59	KANSAS	1,865,867
2	7	TEXAS	3,839,532		60	HAYNE STATE	1,845,449
	8	VIRGINIA	3,783,903		61	NORTHWESTERN	1,752,790
	9	CALIF., BERKELEY	3,592,199		62	RICE	1,741,570
	10	GEORGIA	3,589,159		63	TENNESSEE	1,741,261
	11	COLUMBIA	3,522,715		64	SASKATCHEWAN	1,725,938
	12	MARYLAND	3,521,598		65	TULANE	1,699,685
3	13	ARIZONA	3,380,759		66	PURDUE	1,683,836
	14	TEXAS A&M	3,271,036		67	OREGON	1,628,570
	15	MICHIGAN	3,261,743		68	GEORGETOWN	1,603,523
	16	SUNY-BUFFALO	3,254,467		69	EMORY	1,588,148
	17	SYRACUSE	3,146,128	70	MIT	1,563,722	
	18	ILLINOIS	3,064,421	71	DELAWARE	1,535,016	
4	19	STANFORD	2,974,699	72	MASSACHUSETTS	1,523,919	
	20	HOUSTON	2,925,459	73	BRIGHAM YOUNG	1,522,450	
	21	WISCONSIN	2,907,495	74	QUEEN'S	1,517,341	
	22	IOWA	2,894,806	75	WASHINGTON U-ST. LOUIS	1,516,826	
	23	OHIO STATE	2,866,174	76	MICHIGAN STATE	1,500,911	
	24	NEW MEXICO	2,863,793	7	77	CHICAGO	1,428,944
	25	PENNSYLVANIA STATE	2,802,163		78	VANDERBILT	1,422,902
	26	NORTH CAROLINA STATE	2,772,551		79	JOHNS HOPKINS	1,391,486
	27	GEORGIA TECH	2,766,955		80	LOUISIANA STATE	1,354,837
	28	MINNESOTA	2,746,932		81	TEMPLE	1,339,672
	29	FLORIDA	2,701,120		82	INDIANA	1,280,009
	30	NORTH CAROLINA	2,629,539		83	ALABAMA	1,236,456
	31	YALE	2,613,359		84	CALIF., SAN DIEGO	1,224,024
	32	ARIZONA STATE	2,568,423		85	CALIF., IRVINE	1,219,135
	33	SUNY-STONY BROOK	2,561,817		86	DUKE	1,211,947
	34	OKLAHOMA	2,561,362		87	CALIF., RIVERSIDE	1,154,347
	35	FLORIDA STATE	2,526,918		88	NOTRE DAME	1,089,486
5	36	CALIF., DAVIS	2,479,110		89	COLORADO	1,033,108
	37	BOSTON	2,466,264		90	GUELPH	1,027,115
	38	HOWARD	2,437,773		91	BROWN	1,010,973
	39	RUTGERS	2,437,099		92	PENNSYLVANIA	1,008,715
	40	SOUTHERN ILLINOIS	2,407,632		93	TORONTO	1,003,290
	41	ALBERTA	2,400,285	8	94	MIAMI	938,192
	42	WASHINGTON STATE	2,356,530		95	MANITOBA	930,793
	43	CONNECTICUT	2,355,577		96	BRITISH COLUMBIA	873,119
	44	HAWAII	2,350,040		97	MCGILL	870,989
	45	SOUTH CAROLINA	2,327,945		98	KENT STATE	764,952
	46	ROCHESTER	2,270,461		99	LAVAL	718,667
	47	UTAH	2,245,158		100	WATERLOO	696,187
	48	NEW YORK	2,234,033		101	OKLAHOMA STATE	693,731
	49	PRINCETON	2,217,529		102	YORK	664,235
	50	PITTSBURGH	2,151,218		103	CASE WESTERN RESERVE	606,631
	51	CALIF., SANTA BARBARA	2,119,074		104	SUNY-ALBANY	547,592
	52	NEBRASKA	2,109,735		105	MCMASTER	382,263
	53	KENTUCKY	2,091,475		106	COLORADO STATE	154,940

## RANK ORDER TABLE 5: MATERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 5,500 and over	6- 3,000-3,499
2- 5,000-5,499	7- 2,500-2,999
3- 4,500-4,999	8- 2,000-2,499
4- 4,000-4,499	9- 1,500-1,999
5- 3,500-3,999	10- 1,000-1,499

Gp	R. #k	Institution	Value	Gp	Rank	Institution	Value	
1	1	HARVARD	9,412,545	7	53	FLORIDA STATE	3,108,096	
	2	CALIF., LOS ANGELES	7,451,635		54	SUNY-BUFFALO	3,058,479	
	3	STANFORD	6,926,166		55	ROCHESTER	3,036,813	
	4	MICHIGAN	6,696,724		56	NORTHWESTERN	3,026,379	
	5	YALE	6,434,100					
	6	CALIF., BERKELEY	6,063,143					
	7	CORNELL	5,624,001					
2	8	TORONTO	5,102,068					
	9	COLUMBIA	5,042,399					
	10	WISCONSIN	5,013,892					
3	11	VIRGINIA	4,822,056					
	12	OHIO STATE	4,812,159					
	13	MASSACHUSETTS	4,779,522					
	14	NORTH CAROLINA	4,753,550					
	15	PRINCETON	4,740,009					
	16	TEXAS	4,716,862					
	17	ILLINOIS	4,699,094					
	18	MINNESOTA	4,555,790					
	19	ARIZONA STATE	4,502,040					
	4	20	ARIZONA	4,490,859				
21		WASHINGTON	4,474,133					
22		CALIF., DAVIS	4,332,014					
23		IOWA	4,294,461					
24		INDIANA	4,277,556					
25		DUKE	4,218,253					
26		RUTGERS	4,100,876					
27		CHICAGO	4,097,331					
28		HOWARD	4,097,251					
29		PENNSYLVANIA STATE	4,028,387					
30		NEW YORK	4,003,520					
5		31	GEORGIA	3,997,077				
		32	FLORIDA	3,951,100				
	33	BRITISH COLUMBIA	3,739,913					
	34	SOUTHERN CALIFORNIA	3,739,162					
	35	TEXAS A&M	3,671,669					
	36	CALIF., SAN DIEGO	3,661,659					
	37	KANSAS	3,534,667					
	38	VPI & SU	3,512,342					
	6	39	LOUISIANA STATE	3,493,493				
		40	MICHIGAN STATE	3,369,794				
41		MARYLAND	3,365,992					
42		JOHNS HOPKINS	3,347,091					
43		MCGILL	3,307,089					
44		CALIF., SANTA BARBARA	3,283,591					
45		PENNSYLVANIA	3,275,919					
46		WAYNE STATE	3,261,003					
47		DELAWARE	3,200,760					
48		EMORY	3,168,847					
49		PITTSBURGH	3,136,023					
50		CALIF., IRVINE	3,123,513					
51		CINCINNATI	3,123,419					
52		ALBERTA	3,114,548					
					8	78	SOUTHERN ILLINOIS	2,489,160
					79	HAWAII	2,474,488	
					80	MIT	2,466,682	
					81	HOUSTON	2,459,451	
					82	ALABAMA	2,398,083	
					83	QUEEN'S	2,368,481	
					84	OKLAHOMA	2,355,542	
					85	CALIF., RIVERSIDE	2,349,757	
					86	BROWN	2,328,290	
					87	YORK	2,309,820	
					88	WASHINGTON STATE	2,292,844	
					89	MISSOURI	2,286,117	
					90	TEMPLE	2,285,723	
					91	LAVAL	2,248,717	
					92	SOUTH CAROLINA	2,223,541	
					93	SASKATCHEWAN	2,136,839	
					94	NEW MEXICO	2,122,486	
					95	SUNY-ALBANY	2,116,076	
					96	UTAH	2,090,535	
					97	TENNESSEE	2,046,187	
					98	RICE	2,035,206	
					99	CASE WESTERN RESERVE	2,020,862	
				9	100	WATERLOO	1,944,011	
					101	COLORADO STATE	1,715,111	
					102	MANITOBA	1,711,961	
					103	GUELPH	1,622,799	
					104	OKLAHOMA STATE	1,580,689	
					105	GEORGIA TECH	1,538,691	
				10	106	KENT STATE	1,283,696	

## RANK ORDER TABLE 6: SALARIES AND WAGES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 10,000 and over	6- 5,000-5,999
2- 9,000-9,999	7- 4,000-4,999
3- 8,000-8,999	8- 3,000-3,999
4- 7,000-7,999	9- 2,000-2,999
5- 6,000-6,999	10- 1,000-1,999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value	
1	1	HARVARD	19,393,865	8	62	TEMPLE	3,955,535	
	2	CALIF., BERKELEY	16,975,231		63	SOUTHERN ILLINOIS	3,952,385	
	3	CALIF., LOS ANGELES	16,120,774		64	VANDERBILT	3,910,568	
	4	STANFORD	14,673,523		65	COLORADO	3,879,658	
	5	TORONTO	12,780,368		66	KENTUCKY	3,868,152	
	6	YALE	11,817,400		67	PURDUE	3,832,242	
	7	COLUMBIA	11,288,321		68	LOUISIANA STATE	3,804,323	
2	8	RUTGERS	9,542,557	69	WASHINGTON U-ST. LOUIS	3,798,552		
	9	MICHIGAN	9,383,208	70	SUNY-STONY BROOK	3,794,689		
	10	WISCONSIN	9,284,655	71	ROCHESTER	3,777,919		
	11	MINNESOTA	9,062,207	72	MIAMI	3,726,053		
3	12	CORNELL	8,757,297	73	SYRACUSE	3,668,531		
	13	TEXAS	8,754,959	74	BROWN	3,593,154		
	14	ILLINOIS	8,503,997	75	NEW MEXICO	3,578,984		
	15	WASHINGTON	8,130,675	76	CALIF., RIVERSIDE	3,512,081		
	16	PENNSYLVANIA STATE	8,077,636	77	KENT STATE	3,507,252		
	4	17	OHIO STATE	7,947,062	78	NORTH CAROLINA STATE	3,487,348	
18		ALBERTA	7,311,359	79	WASHINGTON STATE	3,485,996		
19		NEW YORK	7,152,544	80	WATERLOO	3,468,651		
20		BRITISH COLUMBIA	7,140,546	81	TENNESSEE	3,429,982		
21		NORTH CAROLINA	7,067,057	82	SOUTH CAROLINA	3,404,220		
22		PENNSYLVANIA	7,061,150	83	QUEEN'S	3,398,804		
23		PRINCETON	7,003,691	84	MCMASTER	3,396,525		
5		24	CALIF., DAVIS	6,872,660	85	UTAH	3,220,595	
		25	INDIANA	6,813,032	86	IOWA STATE	3,217,465	
		26	MCGILL	6,346,480	87	SUNY-ALBANY	3,108,792	
	27	CALIF., SAN DIEGO	6,324,751	88	SASKATCHEWAN	3,096,186		
	28	VIRGINIA	6,263,267	89	CASE WESTERN RESERVE	3,069,422		
	29	SOUTHERN CALIFORNIA	6,221,521	90	MISSOURI	3,044,024		
	30	NORTHWESTERN	6,209,300	91	OREGON	3,043,719		
	31	CHICAGO	6,121,011	9	92	FLORIDA STATE	2,994,294	
	6	32	ARIZONA		5,796,913	93	VPI & SU	2,968,700
		33	CALIF., SANTA BARBARA		5,719,782	94	DARTMOUTH	2,966,045
34		DUKE	5,685,770		95	DELAWARE	2,947,548	
35		FLORIDA	5,592,764		96	TULANE	2,868,094	
36		LAVAL	5,495,615		97	HOUSTON	2,842,497	
37		MARYLAND	5,491,648		98	NEBRASKA	2,829,775	
38		JOHNS HOPKINS	5,485,684		99	NOTRE DAME	2,829,150	
39		MICHIGAN STATE	5,452,527		100	OKLAHOMA	2,720,765	
40		CINCINNATI	5,366,769		101	GUELPH	2,663,362	
41		PITTSBURGH	5,299,109	102	COLORADO STATE	2,462,903		
42	ARIZONA STATE	5,164,093	103	ALABAMA	2,277,715			
43	MIT	5,124,287	104	OKLAHOMA STATE	2,165,494			
44	CALIF., IRVINE	5,090,229	105	RICE	2,054,195			
45	SUNY-BUFFALO	5,082,337	10	106	GEORGIA TECH	1,918,567		
46	GEORGIA	5,006,155						
7	47	HOWARD		4,981,579				
	48	CONNECTICUT		4,743,067				
	49	GEORGETOWN		4,646,869				
	50	KANSAS		4,606,323				
	51	WESTERN ONTARIO	4,443,522					

# RANK ORDER TABLE 7: OTHER OPERATING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

- |                   |                |
|-------------------|----------------|
| 1- 4,000 and over | 6- 1,500-1,999 |
| 2- 3,500-3,999    | 6- 1,000-1,499 |
| 3- 3,000-3,499    | 7- 500-999     |
| 4- 2,500-2,999    | 8- under 500   |
| 5- 2,000-2,499    |                |

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	HARVARD	5,291,826	52	52	NORTHWESTERN	1,221,529
	2	CALIF., LOS ANGELES	5,210,771		53	MCGILL	1,202,250
2	3	STANFORD	3,879,807	54	TEXAS A&M	1,181,031	
	4	MINNESOTA	3,876,519	55	FLORIDA	1,179,302	
3	5	CALIF., BERKELEY	3,336,969	56	ARIZONA	1,176,164	
	6	YALE	3,300,100	57	CALIF., SANTA BARBARA	1,145,663	
	7	COLUMBIA	3,186,353	58	SUNY-BUFFALO	1,067,258	
	8	WASHINGTON	3,155,981	59	DELAWARE	1,061,841	
4	9	CORNELL	2,942,931	8	60	YORK	993,969
	10	CHICAGO	2,885,680		61	HAWAII	989,219
	11	WISCONSIN	2,713,727		62	IOWA	959,279
	12	TEXAS	2,616,890		63	MISSOURI	946,046
	13	NEW YORK	2,583,913		64	WASHINGTON STATE	906,321
	14	SOUTHERN CALIFORNIA	2,581,672		65	CONNECTICUT	887,561
	15	PITTSBURGH	2,561,403		66	BRIGHAM YOUNG	878,860
	16	PENNSYLVANIA STATE	2,556,275		67	DARTMOUTH	873,521
5	17	MICHIGAN	2,476,779	68	BRITISH COLUMBIA	867,289	
	18	OHIO STATE	2,394,774	69	ROCHESTER	845,058	
	19	TORONTO	2,299,678	70	HOWARD	833,568	
	20	BROWN	2,155,454	71	TULANE	818,792	
	21	WAYNE STATE	2,105,446	72	VPI & SU	794,217	
6	22	VIRGINIA	1,957,737	73	TEMPLE	784,516	
	23	WASHINGTON U-ST. LOUIS	1,944,153	74	NOTRE DAME	742,552	
	24	PENNSYLVANIA	1,938,376	75	NEW MEXICO	740,243	
	25	KANSAS	1,935,324	76	CASE WESTERN RESERVE	709,128	
	26	ILLINOIS	1,911,970	77	PURDUE	707,494	
	27	BOSTON	1,904,238	78	RICE	691,808	
	28	NORTH CAROLINA	1,898,587	79	COLORADO STATE	691,461	
	29	CINCINNATI	1,884,425	80	LAVAL	684,099	
	30	JOHNS HOPKINS	1,877,845	81	NORTH CAROLINA STATE	678,442	
	31	MARYLAND	1,832,367	82	MASSACHUSETTS	615,694	
	32	PRINCETON	1,745,801	83	CALIF., RIVERSIDE	615,526	
	33	RUTGERS	1,633,840	84	GEORGIA TECH	608,533	
	34	CALIF., SAN DIEGO	1,617,881	85	SOUTHERN ILLINOIS	608,397	
	35	INDIANA	1,612,427	86	LOUISIANA STATE	601,725	
	36	VANDERBILT	1,592,651	87	OKLAHOMA	596,055	
	37	MIT	1,567,816	88	HOUSTON	574,102	
	38	KENT STATE	1,514,655	89	OREGON	573,507	
	7	39	EMORY	1,475,763	90	SUNY-STONY BROOK	566,981
40		ARIZONA STATE	1,473,936	91	NEBRASKA	562,710	
41		GEORGETOWN	1,393,771	92	COLORADO	546,867	
42		UTAH	1,387,691	9	93	OKLAHOMA STATE	492,101
43		GEORGIA	1,378,939		94	ALABAMA	489,328
44		MICHIGAN STATE	1,376,464		95	WATERLOO	455,636
45		CALIF., IRVINE	1,373,219		96	SUNY-ALBANY	440,032
46		KENTUCKY	1,360,116		97	MANITOBA	437,304
47		DUKE	1,330,367		98	MCMASTER	418,204
48		MIAMI	1,323,107		99	SOUTH CAROLINA	407,541
49		ALBERTA	1,258,820		100	FLORIDA STATE	393,272
50		SYRACUSE	1,254,255		101	WESTERN ONTARIO	377,401
51		CALIF., DAVIS	1,253,315		102	IOWA STATE	366,778
			103		TENNESSEE	327,425	
			104		SASKATCHEWAN	312,880	
			105		QUEEN'S	309,088	
			106	GUELPH	136,822		

U/A - Unavailable

## RANK ORDER TABLE 8: TOTAL OPERATING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:  
 1- 16,000 and over    8- 9,000-9,999  
 2- 15,000-15,999    9- 8,000-8,999  
 3- 14,000-14,999    10- 7,000-7,999  
 4- 13,000-13,999    11- 6,000-6,999  
 5- 12,000-12,999    12- 5,000-5,999  
 6- 11,000-11,999    13- 4,000-4,999  
 7- 10,000-10,999    14- 3,000-3,999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	HARVARD	34,792,739	52	EMORY	9,061,297	
	2	CALIF., LOS ANGELES	29,428,949	53	TEXAS A&M	9,022,614	
	3	CALIF., BERKELEY	26,998,169	10	54 BOSTON	8,990,001	
	4	STANFORD	25,852,247		55 WASHINGTON U-ST. LOUIS	8,793,639	
	5	YALE	21,855,300		56 CONNECTICUT	8,701,223	
	6	TORONTO	20,374,225		57 VANDERBILT	8,588,061	
	7	COLUMBIA	20,008,645		58 LAVAL	8,466,612	
	8	MICHIGAN	18,851,310		59 KENTUCKY	8,282,161	
	9	MINNESOTA	17,881,544		60 BROWN	8,225,474	
	10	CORNELL	17,517,507		61 LOUISIANA STATE	8,095,982	
	11	WISCONSIN	17,253,886		62 HAWAII	8,035,702	
2	12	TEXAS	16,258,070	11	63 BRIGHAM YOUNG	7,957,247	
	13	WASHINGTON	16,041,230		64 MIAMI	7,921,184	
3	14	RUTGERS	15,664,381		65 ROCHESTER	7,772,439	
	15	OHIO STATE	15,397,844		66 SYRACUSE	7,677,311	
	16	ILLINOIS	15,346,678		67 WESTERN ONTARIO	7,563,768	
4	17	PENNSYLVANIA STATE	14,895,629		68 YORK	7,552,081	
5	18	NEW YORK	13,978,558		69 VPI & SU	7,394,904	
	19	NORTH CAROLINA	13,967,683		70 DELAWARE	7,362,963	
	20	PRINCETON	13,762,225		71 PURDUE	7,350,599	
	21	CHICAGO	13,424,913		72 SUNY-STONY BROOK	7,268,991	
	22	VIRGINIA	13,258,591		73 NORTH CAROLINA STATE	7,219,187	
6	23	INDIANA	12,935,746		74 COLORADO	7,181,127	
	24	CALIF., DAVIS	12,808,628		75 SOUTHERN ILLINOIS	7,158,730	
	25	SOUTHERN CALIFORNIA	12,685,658		76 TEMPLE	7,128,893	
	26	PENNSYLVANIA	12,599,830	12	77 UTAH	6,814,662	
7	27	CALIF., SAN DIEGO	11,967,176		78 WASHINGTON STATE	6,773,071	
	28	BRITISH COLUMBIA	11,893,424		79 FLORIDA STATE	6,657,342	
	29	ARIZONA	11,807,837		80 CALIF., RIVERSIDE	6,629,959	
	30	ALBERTA	11,785,086		81 TULANE	6,552,253	
	31	ARIZONA STATE	11,436,506		82 NEW MEXICO	6,522,692	
	32	DUKE	11,398,777		83 MCMASTER	6,486,524	
	33	PITTSBURGH	11,162,154		84 IOWA STATE	6,449,772	
8	34	MCGILL	10,982,859		85 MISSOURI	6,441,179	
	35	FLORIDA	10,952,533		86 DARTMOUTH	6,438,581	
	36	MARYLAND	10,934,347		87 NEBRASKA	6,429,384	
	37	JOHNS HOPKINS	10,831,473		88 OREGON	6,408,666	
	38	NORTHWESTERN	10,650,409		89 KENT STATE	6,377,416	
	39	GEORGIA	10,609,060		90 MANITOBA	6,241,521	
	40	CINCINNATI	10,519,089		91 NOTRE DAME	6,234,615	
	41	MICHIGAN STATE	10,397,545		92 QUEEN'S	6,164,613	
	42	CALIF., SANTA BARBARA	10,376,881		93 SOUTH CAROLINA	6,152,360	
	43	KANSAS	10,197,931	13	94 HOUSTON	5,945,170	
	44	HOWARD	10,045,835		95 WATERLOO	5,925,791	
9	45	WAYNE STATE	9,868,092		96 TENNESSEE	5,909,115	
	46	CALIF., IRVINE	9,838,430		97 CASE WESTERN RESERVE	5,884,392	
	47	IOWA	9,829,382		98 OKLAHOMA	5,745,844	
	48	MASSACHUSETTS	9,825,395		99 SUNY-ALBANY	5,735,900	
	49	SUNY-BUFFALO	9,352,679		100 SASKATCHEWAN	5,619,647	
	50	MIT	9,292,380		101 ALABAMA	5,244,022	
	51	GEORGETOWN	9,149,465	14	102 COLORADO STATE	4,959,475	
					103 RICE	4,826,953	
					104 GUELPH	4,487,507	
					105 OKLAHOMA STATE	4,322,554	
					106 GEORGIA TECH	4,154,159	

/A - Unavailable



# RANK ORDER TABLE 10: EXPENDITURES FOR MONOGRAPHS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

- |                   |                |
|-------------------|----------------|
| 1- 4,000 and over | 6- 1,500-1,999 |
| 2- 3,500-3,999    | 7- 1,000-1,499 |
| 3- 3,000-3,499    | 8- 500- 999    |
| 4- 2,500-2,999    | 9- under 500   |
| 5- 2,000-2,499    |                |

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	CALIF., LOS ANGELES +	4,274,884	53	MIAMI		1,064,484
	2	HARVARD	4,257,299	54	SUNY-STONY BROOK		1,057,023
2	3	STANFORD +	3,842,453	55	BROWN +		1,055,875
4	4	CALIF., BERKELEY +	2,520,632	56	CALIF., IRVINE		1,050,612
	5	TORONTO +	2,501,286	57	NOTRE DAME		1,026,245
5	6	PRINCETON	2,465,555	58	VPI & SU +		1,025,415
	7	ARIZONA STATE	2,428,262	59	ROCHESTER		1,011,343
	8	COLUMBIA	2,133,496	60	CALIF., RIVERSIDE		1,005,098
	9	OHIO STATE +	2,086,743	8	61	GEORGIA	979,838
	10	TEXAS +	2,074,340		62	MCGILL	972,461
	11	VIRGINIA	2,062,710		63	OREGON +	971,517
	12	NORTH CAROLINA	2,011,676		64	NORTHWESTERN	956,640
6	13	CHICAGO +	1,972,256		65	BOSTON	921,566
	14	CALIF., SAN DIEGO	1,871,457		66	YORK	906,657
	15	YALE	1,845,600		67	KENTUCKY	900,304
	16	IOWA	1,840,828		68	HAWAII	892,310
	17	DELAWARE +	1,804,676		69	IOWA STATE	855,090
	18	BRITISH COLUMBIA +	1,798,469		70	QUEEN'S	841,744
	19	ILLINOIS +	1,699,280		71	TEMPLE	835,000
	20	CALIF., DAVIS	1,676,615		72	NORTH CAROLINA STATE	828,709
	21	WISCONSIN	1,648,909		73	SUNY-BUFFALO	811,750
	22	INDIANA	1,627,279		74	DARTMOUTH	797,614
	23	DUKE	1,598,277		75	WESTERN ONTARIO +	793,791
	24	MICHIGAN STATE +	1,592,167		76	RICE	787,309
	25	MINNESOTA	1,582,180		77	MISSOURI	786,414
	26	MASSACHUSETTS	1,554,132		78	NEBRASKA +	782,278
	27	FLORIDA	1,549,817		79	ALBERTA +	765,211
	28	RUTGERS	1,538,841		80	ALABAMA	750,456
7	29	PENNSYLVANIA STATE +	1,498,064		81	PURDUE	749,226
	30	HOWARD	1,495,240		82	LAVAL	702,573
	31	KANSAS	1,467,897		83	MIT	700,808
	32	BRIGHAM YOUNG	1,428,249		84	WAYNE STATE	699,054
	33	FLORIDA STATE	1,422,155		85	WATERLOO	692,250
	34	UTAH +	1,409,261		86	SOUTH CAROLINA +	688,036
	35	ARIZONA	1,391,222		87	COLORADO	683,815
	36	CONNECTICUT +	1,350,229		88	SYRACUSE	675,593
	37	CALIF., SANTA BARBARA	1,315,640		89	WASHINGTON STATE	671,749
	38	TEXAS A&M	1,239,235		90	TENNESSEE +	658,776
	39	CINCINNATI	1,229,417		91	WASHINGTON U-ST. LOUIS	656,227
	40	WASHINGTON	1,226,677		92	NEW MEXICO	649,706
	41	EMORY	1,192,387		93	SOUTHERN ILLINOIS	639,417
	42	PENNSYLVANIA +	1,191,728		94	OKLAHOMA	629,423
	43	GEORGETOWN	1,167,740		95	SASKATCHEWAN +	622,660
	44	MCMASTER +	1,155,050		96	SUNY-ALBANY	599,230
	45	MARYLAND	1,145,580		97	HOUSTON	593,354
	46	NEW YORK	1,119,545		98	COLORADO STATE	545,840
	47	TULANE +	1,107,233	9	100	GUELPH	465,212
	48	PITTSBURGH	1,105,642		101	OKLAHOMA STATE	443,736
	49	JOHNS HOPKINS	1,103,959		102	MANITOBA +	433,925
	50	LOUISIANA STATE	1,103,535		103	KENT STATE	419,962
	51	VANDERBILT +	1,080,045		104	GEORGIA TECH	232,919
	52	SOUTHERN CALIFORNIA	1,066,968			CORNELL	U/A
						MICHIGAN	U/A

U/A - Unavailable + - Also includes expenditures for Other Library Materials



# RANK ORDER TABLE 11: SERIALS PURCHASED (TITLES)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

- |                    |                  |
|--------------------|------------------|
| 1- 50,000 and over | 4- 20,000-29,999 |
| 2- 40,000-49,999   | 5- 10,000-19,999 |
| 3- 30,000-39,999   | 6- under 10,000  |

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
2	1	GEORGIA	42,990	53	53	NORTH CAROLINA STATE	12,601
3	2	CALIF., DAVIS	37,683	54	54	TENNESSEE	12,296
	3	YALE	35,712	55	55	ROCHESTER	12,059
	4	MICHIGAN	34,309	56	56	MANITOBA	10,794
	5	INDIANA	33,645	57	57	BRIGHAM YOUNG	10,708
	6	TORONTO	30,945	58	58	MCMASTER	10,541
				59	59	LAVAL	10,361
4	7	MINNESOTA	29,642	6	60	CALIF., RIVERSIDE	9,767
	8	ARIZONA	28,075	61	61	WATERLOO	9,525
	9	NEW YORK	27,919	62	62	MIT	9,491
	10	HAWAII	26,060	63	63	OKLAHOMA STATE	9,024
	11	FLORIDA	25,727	64	64	COLORADO STATE	8,573
	12	NORTH CAROLINA	25,173	65	65	KENT STATE	8,849
	13	DUKE	25,004			ARIZONA STATE	U/A
	14	HOWARD	24,798			CALIF., BERKELEY	U/A
	15	IOWA	24,413			CALIF., LOS ANGELES	U/A
	16	COLUMBIA	23,963			CALIF., SAN DIEGO	U/A
	17	OHIO STATE	23,059			CALIF., SANTA BARBARA	U/A
	18	HOUSTON	22,003			CHICAGO	U/A
	19	VIRGINIA	20,880			CINCINNATI	U/A
5	20	ALBERTA	19,684			CONNECTICUT	U/A
	21	MARYLAND	19,266			CORNELL	U/A
	22	SUNY-BUFFALO	19,245			DELAWARE	U/A
	23	LOUISIANA STATE	19,179			EMORY	U/A
	24	GEORGIA TECH	19,011			GUELPH	U/A
	25	GEORGETOWN	18,968			HARVARD	U/A
	26	BRITISH COLUMBIA	18,643			ILLINOIS	U/A
	27	PURDUE	17,900			KENTUCKY	U/A
	28	KANSAS	17,764			MIAMI	U/A
	29	BOSTON	17,577			NEBRASKA	U/A
	30	WASHINGTON U-ST. LOUIS	17,524			NEW MEXICO	U/A
	31	VPI & SU	17,440			NORTHWESTERN	U/A
	32	ALABAMA	17,102			MOTRE DAME	U/A
	33	OKLAHOMA	16,683			PENNSYLVANIA	U/A
	34	DARTMOUTH	16,518			PENNSYLVANIA STATE	U/A
	35	TEXAS A&M	16,510			PITTSBURGH	U/A
	36	WAYNE STATE	16,436			PRINCETON	U/A
	37	SUNY-ALBANY	16,399			QUEEN'S	U/A
	38	CALIF., IRVINE	16,272			RICE	U/A
	39	MICHIGAN STATE	15,752			RUTGERS	U/A
	40	JOHNS HOPKINS	15,641			SASKATCHEWAN	U/A
	41	OREGON	15,477			SOUTH CAROLINA	U/A
	42	FLORIDA STATE	15,473			SOUTHERN ILLINOIS	U/A
	43	MCGILL	14,754			STANFORD	U/A
	44	IOWA STATE	14,127			SUNY-STONY BROOK	U/A
	45	TEMPLE	14,096			SYRACUSE	U/A
	46	MASSACHUSETTS	14,012			TEXAS	U/A
	47	SOUTHERN CALIFORNIA	13,979			TULANE	U/A
	48	WASHINGTON STATE	13,725			UTAH	U/A
	49	MISSOURI	13,398			VANDERBILT	U/A
	50	BROWN	13,212			WASHINGTON	U/A
	51	CASE WESTERN RESERVE	13,200			WESTERN ONTARIO	U/A
	52	COLORADO	13,044			WISCONSIN	U/A
						YORK	U/A

U/A - Unavailable

## RANK ORDER TABLE 12: EXPENDITURES FOR SERIALS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 2,700 and over	7- 1,500-1,699
2- 2,500-2,699	8- 1,300-1,499
3- 2,300-2,499	9- 1,100-1,299
4- 2,100-2,299	10- 900-1,099
5- 1,900-2,099	11- 700- 899
6- 1,700-1,899	12- under 700

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value	
1	1	HARVARD	3,940,596	7	54	SOUTHERN ILLINOIS	1,757,862	
	2	CALIF., BERKELEY	3,542,511		55	COLORADO	1,705,558	
	3	MICHIGAN	3,276,806		56	56	CALIF., SANTA BARBARA	1,699,262
	4	CALIF., LOS ANGELES	3,176,751			57	BOSTON	1,697,003
	5	STANFORD	3,083,713			58	KENTUCKY	1,694,712
	6	WASHINGTON	3,005,302			59	HOUSTON	1,688,912
	7	MINNESOTA	2,859,863			60	VANDERBILT	1,676,199
	8	ILLINOIS	2,818,445			61	WAYNE STATE	1,671,426
	9	GEORGIA	2,799,485			62	NORTH CAROLINA STATE	1,651,237
	10	ARIZONA	2,727,719			63	MIAMI	1,625,249
	11	OHIO STATE	2,725,416			64	WASHINGTON STATE	1,598,458
2	12	COLUMBIA	2,659,835	65		OKLAHOMA	1,569,969	
	13	YALE	2,649,500	66		CONNECTICUT	1,569,732	
	14	TEXAS	2,642,522	67	DARTMOUTH	1,560,871		
	15	TORONTO	2,600,780	68	EMORY	1,550,964		
	16	CALIF., DAVIS	2,533,622	69	MASSACHUSETTS	1,549,260		
	17	WISCONSIN	2,533,524	70	FLORIDA STATE	1,536,745		
	18	PENNSYLVANIA STATE	2,530,323	71	SOUTH CAROLINA	1,535,505		
	3	19	HOWARD	2,476,633	72	MIT	1,527,514	
20		NORTH CAROLINA	2,378,345	73	TULANE	1,522,883		
21		ALBERTA	2,349,337	74	SASKATCHEWAN	1,514,179		
22		VPI & SU	2,318,536	8	75	HAWAII	1,486,529	
23		RUTGERS	2,306,504		76	CALIF., SAN DIEGO	1,454,297	
24		NEW YORK	2,304,771		77	MCMASTER	1,443,530	
4		25	DUKE		2,222,916	78	SUNY-STONY BROOK	1,427,818
	26	LOUISIANA STATE	2,197,811		79	ALABAMA	1,423,350	
	27	INDIANA	2,194,635		80	QUEEN'S	1,401,227	
	28	CHICAGO	2,125,075		81	DELAWARE	1,396,084	
	29	VIRGINIA	2,119,484	82	TENNESSEE	1,387,411		
	30	NEBRASKA	2,115,082	83	MISSOURI	1,373,144		
	31	SOUTHERN CALIFORNIA	2,106,928	84	OREGON	1,340,333		
5	32	PENNSYLVANIA	2,084,191	85	CASE WESTERN RESERVE	1,324,781		
	33	TEXAS A&M	2,064,639	9	86	GEORGETOWN	1,293,757	
	34	IOWA	2,046,781		87	MCGILL	1,290,881	
	35	WASHINGTON U-ST. LOUIS	2,032,205		88	MANITOBA	1,278,036	
	36	KANSAS	2,014,119		89	BROWN	1,272,415	
	37	SUNY-BUFFALO	2,007,236		90	LAVAL	1,249,074	
	38	NORTHWESTERN	1,949,462		91	BRIGHAM YOUNG	1,247,709	
	39	BRITISH COLUMBIA	1,941,444		92	NOTRE DAME	1,246,460	
	40	ARIZONA STATE	1,936,319		93	TEMPLE	1,242,295	
	41	SYRACUSE	1,934,329		94	WATERLOO	1,224,673	
	42	PITTSBURGH	1,931,342		95	SUNY-ALBANY	1,223,291	
	6	43	CINCINNATI		1,894,002	96	YORK	1,167,845
44		PURDUE	1,891,688		97	CALIF., RIVERSIDE	1,167,253	
45		PRINCETON	1,891,118	98	NEW MEXICO	1,125,845		
46		MARYLAND	1,869,666	99	RICE	1,117,640		
47		JOHNS HOPKINS	1,863,432	10	100	OKLAHOMA STATE	1,073,965	
48		CALIF., IRVINE	1,835,253		101	GEORGIA TECH	1,033,131	
49		WESTERN ONTARIO	1,829,617		102	GUELPH	925,073	
50		ROCHESTER	1,800,579		103	COLORADO STATE	902,541	
51		MICHIGAN STATE	1,777,627	11	104	KENT STATE	724,658	
52		IOWA STATE	1,770,567		12	105	UTAH	681,274
53		FLORIDA	1,769,353			CORNELL	U/A	

U/A - Unavailable

## RANK ORDER TABLE 13: TOTAL ITEMS LOANED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

- |                    |                  |
|--------------------|------------------|
| 1- 50,000 and over | 7- 20,000-24,999 |
| 2- 45,000-49,999   | 8- 15,000-19,999 |
| 3- 40,000-44,999   | 9- 10,000-14,999 |
| 4- 35,000-39,999   | 10- 5,000- 9,999 |
| 5- 30,000-34,999   | 11- under 5,000  |
| 6- 25,000-29,999   |                  |

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	MINNESOTA	132,002	52		NOTRE DAME	16,831
	2	ILLINOIS	131,498	53		COLORADO	16,621
	3	WISCONSIN	79,662	54		RUTGERS	16,595
	4	WASHINGTON	78,824	55		JOHNS HOPKINS	16,318
	5	SOUTHERN ILLINOIS	59,181	56		CALIF., SAN DIEGO	16,173
	6	CALIF., LOS ANGELES	56,850	57		VPI & SU	16,049
2	7	IOWA	48,721	58		PITTSBURGH	15,911
4	8	ARIZONA	38,604	59		MIT	15,787
	9	TEXAS A&M	38,579	60		ALBERTA	15,702
	10	CALIF., BERKELEY	38,054	61		PENNSYLVANIA	15,670
	11	CASE WESTERN RESERVE	36,204	62		VANDERBILT	15,532
	12	KANSAS	35,985	63		HOUSTON	15,315
5	13	CHICAGO	33,503	9	64	GEORGIA TECH	14,645
	14	FLORIDA	33,498		65	RICE	14,642
	15	HARVARD	32,864		66	MARYLAND	14,240
	16	INDIANA	32,610		67	SOUTH CAROLINA	14,117
	17	CALIF., DAVIS	32,466		68	MASACHUSETTS	13,879
	18	MCGILL	31,662		69	CALIF., IRVINE	13,806
	19	ARIZONA STATE	30,964		70	TEXAS	13,568
	20	GEORGIA	30,937		71	COLORADO STATE	13,055
	21	DUKE	30,286		72	OREGON	12,878
6	22	SUNY-BUFFALO	28,576		73	MANITOBA	12,337
	23	OHIO STATE	27,863		74	DARTMOUTH	12,095
	24	OKLAHOMA	27,049		75	LAVAL	11,936
	25	MISSOURI	26,891		76	KENT STATE	11,783
	26	CINCINNATI	25,904		77	MCMASTER	11,522
	27	NORTH CAROLINA	25,486		78	MICHIGAN STATE	11,245
7	28	NORTH CAROLINA STATE	24,592		79	NEBRASKA	11,028
	29	CONNECTICUT	24,246		80	PURDUE	11,007
	30	ROCHESTER	24,040		81	UTAH	10,578
	31	CORNELL	23,097		82	HAWAII	10,381
	32	MICHIGAN	23,063		83	SASKATCHEWAN	10,301
	33	VIRGINIA	23,007		84	NEW YORK	10,229
	34	IOWA STATE	22,610		85	OKLAHOMA STATE	10,103
	35	FLORIDA STATE	21,868	10	86	BROWN	9,858
	36	TORONTO	21,303		87	BRIGHAM YOUNG	9,767
	37	EMORY	21,275		88	DELAWARE	9,763
	38	PENNSYLVANIA STATE	21,042		89	LOUISIANA STATE	9,638
	39	SUNY-STONY BROOK	20,664		90	NEW MEXICO	9,614
	40	BOSTON	20,422		91	WESTERN ONTARIO	9,305
	41	WAYNE STATE	20,359		92	YALE	9,242
	42	STANFORD	20,314		93	TULANE	9,001
8	43	COLUMBIA	19,830		94	CALIF., RIVERSIDE	8,793
	44	KENTUCKY	19,659		95	CALIF., SANTA BARBARA	7,937
	45	MIAMI	19,274		96	PRINCETON	7,717
	46	BRITISH COLUMBIA	19,035		97	ALABAMA	7,573
	47	WASHINGTON U-ST. LOUIS	18,992		98	TEMPLE	7,430
	48	SUNY-ALBANY	18,234		99	YORK	7,258
	49	WASHINGTON STATE	17,391		100	SYRACUSE	6,972
	50	NORTHWESTERN	17,171		101	GEORGETOWN	6,111
	51	TENNESSEE	17,122		102	SOUTHERN CALIFORNIA	5,172
					103	WATERLOO	5,141
					104	QUEEN'S	5,030
				11	105	HOWARD	3,169
					106	GUELPH	2,666

U/A - Unavailable

## RANK ORDER TABLE 14: TOTAL ITEMS BORROWED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

- |                    |                 |
|--------------------|-----------------|
| 1- 18,000 and over | 6- 8,000-9,999  |
| 2- 16,000-17,999   | 7- 6,000-7,999  |
| 3- 14,000-15,999   | 8- 4,000-5,999  |
| 4- 12,000-13,999   | 9- 2,000-3,999  |
| 5- 10,000-11,999   | 10- under 2,000 |

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value	
1	1	ILLINOIS	157,645	52	52	FLORIDA	7,570	
	2	BOSTON	40,278		53	KENT STATE	7,387	
	3	CALIF., BERKELEY	18,946		54	STANFORD	7,336	
2	4	KANSAS	17,136	55	MASSACHUSETTS	7,270		
	5	JOHNS HOPKINS	14,406	56	ARIZONA	7,216		
3	6	OKLAHOMA	13,974	57	MISSOURI	7,189		
	7	TEXAS A&M	13,473	58	CALIF., SAN DIEGO	7,171		
4	8	ALBERTA	13,320	59	MCMASTER	6,933		
	9	PENNSYLVANIA	13,260	60	YALE	6,884		
10	10	SASKATCHEWAN	13,098	61	CHICAGO	6,876		
	11	MINNESOTA	12,625	62	DARTMOUTH	6,822		
5	12	COLORADO STATE	11,922	63	PURDUE	6,805		
	13	RUTGERS	11,883	64	COLUMBIA	6,613		
	14	OHIO STATE	11,715	65	SOUTHERN ILLINOIS	6,429		
	15	WISCONSIN	11,653	66	CASE WESTERN RESERVE	6,411		
	16	CORNELL	11,621	67	OREGON	6,358		
	17	BRIGHAM YOUNG	11,421	68	PRINCETON	6,324		
	18	NORTHWESTERN	11,270	69	TEMPLE	6,280		
	19	CONNECTICUT	11,182	70	FLORIDA STATE	6,175		
	20	MICHIGAN	11,096	71	QUEEN'S	6,022		
	21	MIA.	10,975	8	72	SOUTH CAROLINA	5,798	
	22	PENNSYLVANIA STATE	10,920		73	EMORY	5,756	
	23	BRITISH COLUMBIA	10,519		74	GEORGETOWN	5,681	
	24	KENTUCKY	10,457		75	GEORGIA	5,664	
	25	ARIZONA STATE	10,244		76	SUNY-STONY BROOK	5,639	
26	CALIF., SANTA BARBARA	10,070	77		NEBRASKA	5,563		
6	27	LAVAL	9,674		78	NEW MEXICO	5,485	
	28	WASHINGTON U-ST. LOUIS	9,236		79	BROWN	5,402	
	29	INDIANA	9,096		80	WESTERN ONTARIO	5,393	
	30	CINCINNATI	9,030		81	WATERLOO	5,315	
	31	VANDERBILT	8,923		82	MICHIGAN STATE	5,281	
	32	TORONTO	8,869		83	DUKE	5,275	
	33	SUNY-BUFFALO	8,868		84	ALABAMA	5,214	
	34	NOTRE DAME	8,818		85	IOWA STATE	5,210	
	35	COLORADO	8,816	86	MANITOBA	5,163		
	36	VIRGINIA	8,814	87	SYRACUSE	4,990		
	37	NEW YORK	8,725	88	WASHINGTON	4,986		
	38	CALIF., RIVERSIDE	8,627	89	OKLAHOMA STATE	4,745		
	39	TULANE	8,568	90	NORTH CAROLINA STATE	4,652		
	40	CALIF., LOS ANGELES	8,467	91	LOUISIANA STATE	4,464		
7	41	CALIF., IRVINE	8,430	92	NORTH CAROLINA	4,289		
	42	HARVARD	8,409	93	TENNESSEE	4,266		
	43	SUNY-ALBANY	8,313	9	94	DELAWARE	3,933	
	44	UTAH	8,080		95	WASHINGTON STATE	3,755	
	45	HOUSTON	8,007		96	YORK	3,753	
	46	PITTSBURGH	7,985		97	SOUTHERN CALIFORNIA	3,665	
	47	TEXAS	7,804		98	MIT	3,584	
	48	IOWA	7,736		99	GUELPH	3,450	
	49	ROCHESTER	7,602		100	VPI & SU	3,355	
	50	CALIF., DAVIS	7,571		101	MARYLAND	3,334	
	50	MCGILL	7,571		102	GEORGIA TECH	3,124	
	10	106	HOWARD		964	103	RICE	2,998
		105	HAWAII		2,548	104	WAYNE STATE	2,679

U/A - Unavailable

## RANK ORDER TABLE 15: PROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 225 and over	6- 100-124
2- 200-224	7- 75- 99
3- 175-199	8- 50- 74
4- 150-174	9- 25- 49
5- 125-149	

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	HARVARD	327	51	51	CALIF., DAVIS	70
2	2	CALIF., LOS ANGELES	219	51	51	LAVAL	70
3	3	YALE	191	51	51	MIAMI	70
4	4	CALIF., BERKELEY	172	54	54	SYRACUSE	67
	5	STANFORD	170	54	54	TEXAS A&M	67
	6	CORNELL	160	56	56	CASE WESTERN RESERVE	66
	7	TORONTO	157	56	56	HAWAII	66
	8	COLUMBIA	156	56	56	KENTUCKY	66
5	9	ILLINOIS	137	59	59	WASHINGTON U-ST. LOUIS	65
	9	TEXAS	137	60	60	BOSTON	64
	11	MICHIGAN	133	60	60	CONNECTICUT	64
	12	WISCONSIN	132	60	60	EMORY	64
6	13	MINNESOTA	121	63	63	LOUISIANA STATE	61
	14	SOUTHERN CALIFORNIA	119	64	64	MISSOURI	60
	14	WASHINGTON	119	65	65	PELORUE	59
	16	NORTH CAROLINA	114	65	65	SOUTH CAROLINA	59
	16	OHIO STATE	114	67	67	HAYNE STATE	58
	18	PENNSYLVANIA STATE	113	68	68	CALIF., SANTA BARBARA	57
	19	INDIANA	112	68	68	ROCHESTER	57
	20	NORTHWESTERN	108	70	70	FLORIDA STATE	56
	20	NORTHWESTERN	108	70	70	MANITOBA	56
	20	NORTHWESTERN	108	70	70	MASSACHUSETTS	56
	20	NORTHWESTERN	108	70	70	SOUTHERN ILLINOIS	56
	20	NORTHWESTERN	108	70	70	TENNESSEE	56
	20	NORTHWESTERN	108	70	70	VPI & SU	56
	20	NORTHWESTERN	108	76	76	CALIF., IRVINE	54
	20	NORTHWESTERN	108	76	76	DELAWARE	54
	20	NORTHWESTERN	108	76	76	WESTERN ONTARIO	54
	20	NORTHWESTERN	108	79	79	NEBRASKA	53
	20	NORTHWESTERN	108	80	80	SUNY-STONY BROOK	52
	20	NORTHWESTERN	108	81	81	ALABAMA	51
	20	NORTHWESTERN	108	82	82	OREGON	50
	20	NORTHWESTERN	108	82	82	TULANE	50
	20	NORTHWESTERN	108	82	82	YORK	50
7	27	ARIZONA	97	9	85	UTAH	49
	28	DUKE	95		86	OKLAHOMA	48
	28	VIRGINIA	95		87	COLORADO	47
	30	SUNY-BUFFALO	90		87	GEORGIA TECH	47
	31	BRIGHAM YOUNG	88		89	NEW MEXICO	46
	31	JOHNS HOPKINS	88		89	SUNY-ALBANY	46
	33	KANSAS	87		91	IOWA STATE	45
	33	MIT	87		91	WASHINGTON STATE	45
	33	PITTSBURGH	87		93	HOUSTON	43
	36	ALBERTA	86		93	NORTH CAROLINA STATE	43
	36	ARIZONA STATE	86		93	WATERLOO	43
	38	IOWA	85		96	COLORADO STATE	42
	39	MARYLAND	83		97	DARTMOUTH	40
	40	GEORGIA	80		97	KENT STATE	40
	40	HOWARD	80		97	OKLAHOMA STATE	40
	42	MICHIGAN STATE	79		97	RICE	40
	43	CINCINNATI	78		101	NOTRE DAME	39
	43	MCGILL	78		101	QUEEN'S	39
	45	BROWN	75		103	MCMASTER	38
	45	CHICAGO	75		104	SASKATCHEWAN	36
8	47	GEORGETOWN	74		105	CALIF., RIVERSIDE	34
	47	VANDERBILT	74		106	GUELPH	33
	49	TEMPLE	72				
	50	CALIF., SAN DIEGO	71				

U/A - Unavailable

# RANK ORDER TABLE 16: NONPROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 450 and over	6- 200-249
2- 400-449	7- 150-199
3- 350-399	8- 100-149
4- 300-349	9- 50- 99
5- 250-299	10- under 50

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value			
1	1	HARVARD	577	52	52	CINCINNATI	139			
	2	TORONTO	463		53	TENNESSEE	134			
3	3	YALE	396	53	53	YORK	134			
	4	TEXAS	373	55	55	EMORY	132			
	5	STANFORD	352	55	55	MICHIGAN STATE	132			
4	6	COLUMBIA	317	57	57	MISSOURI	131			
				58	58	GEORGETOWN	128			
5	7	CALIF., BERKELEY	296	59	59	MASSACHUSETTS	127			
		CALIF., LOS ANGELES	293	59	59	SASKATCHEWAN	127			
		CORNELL	289	61	61	HOWARD	126			
		ILLINOIS	288	62	62	KENTUCKY	122			
		ALBERTA	278	62	62	MIAMI	122			
		PENNSYLVANIA STATE	274	62	62	NORTH CAROLINA STATE	122			
		MICHIGAN	273	65	65	KANSAS	121			
		BRITISH COLUMBIA	269	65	65	WASHINGTON U-ST. LOUIS	121			
		6	15	RUTGERS	240	67	67	SUNY-STONY BROOK	119	
				WASHINGTON	228	67	67	VANDERBILT	119	
				PRINCETON	223	69	69	TEMPLE	118	
				INDIANA	218	70	70	LOUISIANA STATE	115	
				WISCONSIN	217	70	70	SUNY-BUFFALO	115	
				OHIO STATE	210	72	72	NOTRE DAME	111	
MCGILL	207			72	72	SOUTH CAROLINA	111			
NORTH CAROLINA	202			72	72	UTAH	111			
WESTERN ONTARIO	201			72	72	WAYNE STATE	111			
7	24			LAVAL	193	76	76	DELAWARE	110	
				VIRGINIA	193	76	76	WASHINGTON STATE	110	
				CALIF., DAVIS	191	78	78	NEBRASKA	109	
				ARIZONA STATE	190	78	78	ROCHESTER	109	
				CHICAGO	189	80	80	GUELPH	108	
		NEW YORK	188	81	81	IOWA STATE	107			
		GEORGIA	186	81	81	IOWA STATE	107			
		JOHNS HOPKINS	182	83	83	NEW MEXICO	107			
		ARIZONA	179	83	83	CALIF., IRVINE	106			
		DUKE	173	83	83	DARTMOUTH	106			
		MINNESOTA	173	85	85	VPI & SU	105			
		PITTSBURGH	170	85	85	CALIF., RIVERSIDE	104			
		FLORIDA	169	87	87	BROWN	103			
		PENNSYLVANIA	167	87	87	IOWA	103			
		CALIF., SAN DIEGO	166	89	89	CONNECTICUT	102			
		QUEEN'S	160	89	89	TULANE	102			
		MANITOBA	157	91	91	COLORADO	100			
		SOUTHERN CALIFORNIA	156	91	91	HAWAII	100			
		NORTHWESTERN	154	9	93	93	FLORIDA STATE	99		
MIT	151	94	94		SOUTHERN ILLINOIS	97				
8	44	MARYLAND	149		95	95	KENT STATE	93		
		PURDUE	149		96	96	SUNY-ALBANY	89		
		TEXAS A&M	149		97	97	OREGON	87		
		BOSTON	146		98	98	HOUSTON	83		
		SYRACUSE	145		99	99	CASE WESTERN RESERVE	80		
		WATERLOO	141		100	100	OKLAHOMA	79		
		MCMASTER	140		101	101	ALABAMA	75		
		CALIF., SANTA BARBARA	139		102	102	RICE	73		
		10	106		BRIGHAM YOUNG	139	103	103	COLORADO STATE	71
						139	104	104	OKLAHOMA STATE	69
						139	105	105	GEORGIA TECH	50
						139				
				139						
				139						

U/A - Unavailable

## RANK ORDER TABLE 17: TOTAL STAFF

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 650 and over	7- 350-399
2- 600-649	8- 300-349
3- 550-599	9- 250-299
4- 500-549	10- 200-249
5- 450-499	11- 150-199
6- 400-449	12- 100-149

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value	
1	1	HARVARD	1,030	10	60	MISSOURI	249	
	2	CALIF., BERKELEY	756		61	EMORY	248	
	3	CALIF., LOS ANGELES	730		62	SOUTHERN ILLINOIS	246	
	4	TORONTO	727		63	BROWN	243	
	5	YALE	679		63	MIAMI	243	
2	6	COLUMBIA	624		65	YORK	241	
	7	STANFORD	621		66	NEW MEXICO	240	
3	8	TEXAS	577		67	CALIF., SANTA BARBARA	239	
4	9	MICHIGAN	548		68	MANITOBA	237	
	10	ILLINOIS	547		69	FLORIDA STATE	236	
	11	CORNELL	532		69	MASSACHUSETTS	236	
	12	INDIANA	521		71	TENNESSEE	232	
5	13	WISCONSIN	494		71	UTAH	232	
	14	WASHINGTON	471		73	WASHINGTON U-ST. LOUIS	228	
	15	RUTGERS	465	74	CONNECTICUT	225		
	16	PENNSYLVANIA STATE	460	75	CALIF., IRVINE	224		
	17	OHIO STATE	455	75	NORTH CAROLINA STATE	224		
6	18	MINNESOTA	428	77	QUEEN'S	223		
	19	BRITISH COLUMBIA	419	78	ROCHESTER	222		
	20	NORTH CAROLINA	409	79	HAWAII	220		
	21	FLORIDA	404	80	SUNY-STONY BROOK	216		
	22	ALBERTA	401	81	OREGON	211		
	7	23	SOUTHERN CALIFORNIA	385	82	DELAWARE	207	
24		GEORGIA	383	82	WASHINGTON STATE	207		
25		PRINCETON	380	84	NEBRASKA	206		
26		PENNSYLVANIA	372	84	WATERLOO	206		
27		JOHNS HOPKINS	369	86	VPI & SU	205		
28		NEW YORK	367	87	COLORADO	204		
29		ARIZONA	366	87	IOWA STATE	204		
30		NORTHWESTERN	356	11	89	OKLAHOMA	198	
31		ARIZONA STATE	351		89	SOUTH CAROLINA	198	
8		32	VIRGINIA		341	91	MCMASTER	193
		33	CHICAGO		336	92	KENT STATE	183
	34	PITTSBURGH	332		92	TULANE	183	
	35	CALIF., DAVIS	324		94	DARTMOUTH	182	
	35	MCGILL	324		95	NOTRE DAME	180	
	37	MARYLAND	321		96	CALIF., RIVERSIDE	179	
	38	MICHIGAN STATE	320		97	ALABAMA	176	
	39	DUKE	319		98	CASE WESTERN RESERVE	174	
	40	CALIF., SAN DIEGO	316		98	SASKATCHEWAN	174	
	41	TEXAS A&M	311	98	SUNY-ALBANY	174		
	42	WESTERN ONTARIO	304	101	HOUSTON	173		
	43	BRIGHAM YOUNG	300	102	OKLAHOMA STATE	164		
	9	44	CINCINNATI	297	103	GUELPH	155	
45		KANSAS	292	12	104	RICE	145	
46		GEORGETOWN	285		105	COLORADO STATE	139	
47		LOUISIANA STATE	279		106	GEORGIA TECH	112	
48		BOSTON	278					
49		SUNY-BUFFALO	277					
50		MIT	275					
51		HAWAII	270					

- Unavailable

# ARI. STATISTICS, 1986-87

## Instructions for Completion of the Questionnaire

1. Definitions of the statistical categories used in this questionnaire can be found in *American National Standard for Library and Information Sciences and Related Publishing Practices - Library Statistics*. Z39.7-1983. (New York, American National Standards Institute, 1983.)
2. The questionnaire assumes a fiscal year ending June 30, 1987. If your fiscal year is different, please provide a footnote on p. 4 of the questionnaire.
3. All figures should be rounded to the nearest whole number.
4. If the appropriate answer is zero or none, use 0. If an exact figure is unavailable, use U/A. If a question is not applicable to your library, use N/A.
5. In a university which includes both main and branch campuses, an effort should be made to report figures for the main campus only. (The U.S. National Center for Education Statistics in its Integrated Postsecondary Education Data System (IPEDS) survey described a **branch campus** as one "located in a community different from that of its parent institution ... beyond a reasonable commuting distance from the main campus ... The educational activities at the location must be organized on a relatively permanent basis ... and include course offerings for one or more complete college-level programs of at least one full year.") If figures for libraries located on branch campuses are reported, please provide an explanatory footnote on p. 4 of the questionnaire.
6. A **branch library** is defined as an auxiliary library service outlet with quarters separate from the central library of a system, which has a basic collection of books and other materials, a regular staffing level, and an established schedule. A branch library is administered either by the central library or (as in the case of some law and medical libraries) through the administrative structure of other units within the university. Departmental study/reading rooms are not included.
7. **Questions 1-6. Collections.** Use the ANSI Z39.7-1983 definition for **volume** as follows:

a physical unit of any printed, typewritten, handwritten, mimeographed, or processed work, contained in one binding or portfolio, hardbound or paperbound, which has been cataloged, classified, and made ready for use.

Include duplicates and bound volumes of periodicals. Exclude microforms, maps, nonprint materials, and uncataloged items. Exclude government document volumes unless they are cataloged, classified, and shelved as part of the general collection. If any of these items cannot be excluded, please provide an explanatory footnote on p. 4 of the questionnaire. For purposes of this questionnaire, unclassified bound serials that are arranged in alphabetical order are considered classified.
8. **Question 2.** Include only volumes cataloged, classified, and made ready for use.
9. **Question 6.** Report number of volumes purchased. Include all volumes for which an expenditure was made during 1985-86, including volumes paid for in advance but not received during the fiscal year. Include monographs in series and continuations. If only number of titles purchased can be reported, please report the data and provide an explanatory footnote on p. 4 of the questionnaire. **Note:** This question is concerned with volumes purchased rather than volumes received or cataloged. Question 15 requests the expenditure for the volumes counted here.

10. **Questions 7-9. Serials.** Include duplicate subscriptions and only those government document serials that are cataloged, classified, and shelved as part of the general collection; do not include government documents serials that are housed in a separate government documents collection. Exclude monographic and publishers' series. A serial is
 

a publication issued in successive parts, usually at regular intervals, and as a rule, intended to be continued indefinitely. Serials include periodicals, newspapers, annuals (reports, yearbooks, etc.), memoirs, proceedings, and transactions of societies.
11. **Question 10. Microforms.** Include number of reels of microfilm, number of microcards, and number of microprint and microfiche sheets. Exclude government document microforms.
12. **Questions 11-14. Personnel.** Report the number of staff in filled positions, or positions which are only temporarily vacant. Include cost recovery positions and staff hired for special projects and grants, but provide an explanatory footnote indicating the number of such staff. If such staff cannot be included, provide a footnote on p. 4 of the questionnaire. The number of FTE staff should be determined on the basis of the length of the work week in the reporting library. Round figures to the nearest whole numbers. Please give the number of hours in the work week on p. 4 of the questionnaire.
13. **Question 11.** Since the criteria for determining professional status vary among libraries, there is no attempt to define the term "professional." Each library should report those staff members it considers professional, including, when appropriate, staff who are not librarians in the strict sense of the term, such as computer experts, systems analysts, budget officers, etc.
14. **Questions 15-25. Expenditures.** Report all expenditures of funds that come to the library from the regular institutional budget and from other sources, such as research grants, special projects, gifts and endowments, and fees for service. Canadian libraries should report expenditures in both Canadian and U.S. dollars. To determine figures in U.S. dollars, divide Canadian dollar amounts by 1.3602, the average monthly noon exchange rate published in the Bank of Canada *Review* for the period July 1986 - June 1987.
15. **Question 15.** Include here expenditures for volumes reported on line 6.
16. **Question 16.** Exclude monographic and publishers' series.
17. **Question 17.** Include all materials except monographs and current serials, e.g. microforms, backfiles of serials, charts and maps, audiovisual materials, manuscripts, electronic media, etc.
18. **Question 18.** Include any other materials funds expenditures not included in questions 15-17, e.g., expenditures for bibliographic utilities, literature searching, security devices, memberships for the purposes of publications, etc. Please list categories, with amounts, in a footnote on p. 4 of the questionnaire.
19. **Question 20** Include only contract expenditures. If all binding is done in-house, state this fact and give in-house expenditures in a footnote on p. 4 of the questionnaire; do not include personnel expenditures.
20. **Questions 21-24.** Exclude fringe benefits.
21. **Questions 23-24.** Report 100% of student wages. Include federal and local funds for work study students, regardless of budgetary source of funds.

22. **Question 25.** Exclude expenditures for buildings, maintenance, and fringe benefits.
23. **Questions 27-28.** Include both original materials and photocopies in lieu of originals.
24. **Questions 29-30. Ph.D. Degrees.** Please note that only the number of Ph.D. degrees are to be counted. Statistics on all other advanced degrees (e.g., D.Ed., D.P.A., M.D., J.D.) are not included in this survey. If you are unable to provide a figure for Ph.D.s only, please note this in a footnote on p. 4 of the questionnaire.
25. **Question 30.** For the purposes of this report, Ph.D. fields are defined as the specific discipline specialties formerly enumerated in the form used by the U.S. Department of Education entitled, "Integrated Postsecondary Education Data System Survey, Postsecondary Completions," designated as ED (CS) Form G50-14P-C. Although the IPEDS form requests figures for all doctoral degrees, only fields in which Ph.D.s are awarded should be reported on the ARL questionnaire. Any exceptions should be noted in a footnote on p. 4 of the questionnaire.
26. **Questions 31-34. Enrollment.** U.S. libraries should use the 1986-87 enrollment figures reported to the Department of Education on the form entitled "Integrated Postsecondary Education Data System, Fall Enrollment . . . 1986," designated as ED (CS) Form G50-14P-EF. The line and column numbers on the IPEDS form for each category are noted on the questionnaire. Please check these figures against the enrollment figures reported to ARL in 1985 to ensure consistency and accuracy. **Note:** In the past, the number of part-time students reported was FTE; the number now reported to IPEDS is a head count of part-time students.
27. **Question 35. Faculty.** Instructional faculty are defined as those members of the Instructional/Research staff who are employed on a full-time basis and whose major regular assignment is instruction, including those with released time for research. Please be sure number reported is equivalent to the number reported for 1985-86.
28. **Footnotes.** Reporting libraries are urged to record in the footnote section any information that would clarify the figures submitted, e.g., the inclusion of branch campus libraries. Explanatory footnotes will be included with the published statistics. Please make an effort to word your footnotes in a manner consistent with notes appearing in the published report, so that the ARL Office can interpret your footnotes correctly. For your convenience, a copy of your footnotes from the 1985-86 *ARL Statistics* is included in the questionnaire. (Please note that the number in parentheses refers to the appropriate column on the Library Data Tables in the published *Statistics*, not to a line number on the questionnaire.)
29. After the questionnaire has been completed, please compare the figures with those submitted last year. On occasion, an error will be detected because of an unusual difference between numbers submitted this year and those for the preceding year. If an unusual change has occurred, please provide an explanatory footnote on p. 4 of the questionnaire.
30. Return one copy of each questionnaire to the ARL Office by **October 9, 1986**. If there are any questions about the procedure to be followed in completing these questionnaires, contact the ARL Office. Please be sure the library director has signed the questionnaire before it is returned to the ARL Office.

# ASSOCIATION OF RESEARCH LIBRARIES

1527 New Hampshire Avenue, N.W., Washington, D.C. 20036 (202) 232-2466

## ARL STATISTICS QUESTIONNAIRE, 1986-87

If the appropriate answer is zero or none, use "0". If an exact figure is unavailable, use "U/A." If a question is not applicable, use "N/A."

Reporting Institution \_\_\_\_\_ Date Returned to ARL \_\_\_\_\_

Questionnaire Completed by (Name) \_\_\_\_\_

Position \_\_\_\_\_ Phone \_\_\_\_\_

Contact Person (if different) \_\_\_\_\_

Position \_\_\_\_\_ Phone \_\_\_\_\_

### COLLECTIONS (See instructions 7-11)

1. **Volumes held June 30, 1986**  
(Exclude microforms, uncataloged govt. docs., maps, a/v material.  
Record figure reported last year or footnote adjusted figure on p. 4.) \_\_\_\_\_
2. **Volumes added during year -- Gross**  
(Exclude microforms, uncataloged govt. docs., maps, a/v material.)  
(See instruction 8) \_\_\_\_\_
3. **Volumes withdrawn during year**  
(Exclude microforms, uncataloged govt. docs., maps, a/v material.) \_\_\_\_\_
4. **Volumes added during year -- Net** (Subtract line 3 from line 2) \_\_\_\_\_
5. **Volumes held June 30, 1987** (Add line 1 to line 4) \_\_\_\_\_
6. **Number of monographic volumes purchased**  
(Volumes for which expenditures are reported on line 15. Footnote if titles.)  
(See instruction 9) \_\_\_\_\_
7. **Number of current serials, including periodicals, purchased**  
(See instruction 10) \_\_\_\_\_
8. **Number of current serials, including periodicals, received but not purchased** (Exchanges, gifts, etc.) (See instruction 10) \_\_\_\_\_
9. **Total number of current serials received** (Add line 7 to line 8) \_\_\_\_\_
10. **Total microform units held June 30, 1987** (See instruction 11) \_\_\_\_\_

### PERSONNEL (See instructions 12-13) (Round figures to nearest whole number.)

11. **Number of professional staff, FTE** (See instruction 13) \_\_\_\_\_
12. **Number of nonprofessional staff, FTE** \_\_\_\_\_
13. **Number of student assistants, FTE** \_\_\_\_\_
14. **Total FTE staff** (Add lines 11, 12, 13) \_\_\_\_\_

Dollars Canadian  
(Canadian  
libraries only)

Dollars U.S.  
(Divide Canadian  
dollars by 1.3602)

**EXPENDITURES** (See instructions 14-22)

- 15. **Monographs** (Expenditures for volumes reported on line 6)  
(See instruction 15) \_\_\_\_\_
- 16. **Current serials including periodicals** (See instruction 16) \_\_\_\_\_
- 17. **Other library materials (e.g., microforms, a/v, etc.)**  
(See instruction 17) \_\_\_\_\_
- 18. **Miscellaneous** (All materials fund expenditures not included above)  
(See instruction 18) \_\_\_\_\_
- 19. **Total library materials** (Add lines 15, 16, 17, 18) \_\_\_\_\_
- 20. **Contract binding** (See instruction 19) \_\_\_\_\_
- 21. **Salaries and wages -- professional staff** (See instruction 20) \_\_\_\_\_
- 22. **Salaries and wages -- nonprofessional staff** (See instruction 20) \_\_\_\_\_
- 23. **Salaries and wages -- student assistants** (See instruction 21) \_\_\_\_\_
- 24. **Total salaries and wages** (See instruction 20) (Add lines 21,22,23) \_\_\_\_\_
- 25. **Other operating expenditures** (See instruction 22) \_\_\_\_\_
- 26. **Total library expenditures** (Add lines 19, 20, 24, 25) \_\_\_\_\_

**INTERLIBRARY LOANS** (See instruction 23)

- 27. **Total items loaned** \_\_\_\_\_
- 28. **Total items borrowed** \_\_\_\_\_

**PH.D. DEGREES** (See instructions 24-25)

- 29. **Number of Ph.D.s awarded** \_\_\_\_\_
- 30. **Number of fields in which Ph.D.s can be awarded** (See instruction 25) \_\_\_\_\_

**ENROLLMENT -- FALL 1986** (See instruction 26)

- 31. **Total full-time students** (Add line 8, columns 13 & 14, and line 14, columns 13 & 14) \_\_\_\_\_
- 32. **Total part-time students** (Add line 22, columns 13 & 14, and line 28, columns 13 & 14) \_\_\_\_\_
- 33. **Total full-time graduate students** (Line 14, columns 13 & 14) \_\_\_\_\_
- 34. **Total part-time graduate students** (Line 28, columns 13 & 14) \_\_\_\_\_

**FACULTY** (See instruction 27)

- 35. **Number of full-time instructional faculty** \_\_\_\_\_

**FOOTNOTES FOR ARL STATISTICS, 1983-87**

(Compare footnotes from previous year as they appear in the published *ARL Statistics* and revise as appropriate. For your convenience, a copy of your library's footnotes is given on p. 4 of this questionnaire.) (See instruction 28)

1. Law Library statistics are included.

Yes       No       We do not have a Law Library

2. Medical Library statistics are included.

Yes       No       We do not have a Medical Library

3. Other main campus libraries not included:

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4. Figures include reports from branch campus libraries. (See instruction 5)

Yes       No       We have only one campus.

5. If branch campus libraries are included, please specify which campuses.

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6. If branch campus libraries are not included, please specify which campuses:

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7. Basis of volume count is:       Physical       Bibliographical

8. Count of current serials (Questions 7-9) includes government document serials.

Yes       No

9. Fringe benefits are included in expenditures for salaries and wages (Questions 21-24).

Yes       No

10. Other comments:

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**FOOTNOTES FOR ARL STATISTICS, 1985-86**

11. Footnotes as published in the 1985-86 *ARL Statistics*. Please indicate revisions, additions, and deletions as appropriate. Note: number in ( ) refers to the column in Library Data Tables in 1985-86 *ARL Statistics*.

Please return completed questionnaire to the ARL Office by October 9, 1987.

Reporting Institution: \_\_\_\_\_

Library Director's Signature: \_\_\_\_\_

Association of Research Libraries, 1527 New Hampshire Avenue, N.W., Washington, D.C. (202) 232-2466

## FOOTNOTES TO THE ARL STATISTICS, 1986-87

<i>Institution</i>	<i>Category from Main Tables</i>	<i>Notes</i>
ALABAMA		All figures are as of September 30, 1987.
	(17)	Includes Law Library and Map Library only; other libraries do not separate expenditures for audiovisual materials and microforms.
	(18)	Includes SOLINET (\$146,705), memberships (\$7,543), online searching (\$42,125), and Health Sciences interlibrary loan (\$500).  1985-86 figure for instructional faculty represented head count not FTE.  1985-86 figures for Ph.D. fields and number of degrees awarded included doctorates other than the Ph.D.
ALBERTA		All figures are as of March 31, 1987.
		Excludes Extension Library, Boreal Institute Library, St. Joseph's College Library, and Map Library.
	(1)	Figure revised due to inventory of the Faculte Saint Jean Library in 1986.
	(9,10)	Figures do not include loans to Provincial government libraries, Extension library, Health Sciences Library, and Law Library extramural loans.
	(15,17)	Figures including outside funding would be (15) \$1,423,600 (Can.); (17) \$575,118 (Can.).
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(15-26)	Expenditures are University provided funding only.

<i>Institution</i>	<i>Category from Main Tables</i>	<i>Notes</i>
ALBERTA (cont.)	(15-26)	Expenditures reported in Canadian dollars were: (15) \$1,040,840; (16) \$3,195,568; (17) U/A; (18) U/A; (19) \$4,236,408; (20) \$136,508; (21) \$3,309,142; (22) \$6,054,769; (23) \$581,000; (24) \$9,944,911; (25) \$1,712,247; (26) \$16,030,074.
ARIZONA	(1)	Includes government documents received through 1978.
ARIZONA STATE		Includes Arizona State University West Campus.
BOSTON		Includes the Theology Library.
	(1)	1985-86 figure revised.
	(5-7)	Estimated figures.
BOSTON PUBLIC	(1)	Includes branch libraries (802,714) and general library (739,021). Excludes patents (8,500,000 +), prints (700,780 +), and manuscripts (1,000,000 +).
	(24)	Figure published for 1985-86 Total Salaries and Wages was incorrect.
BRIGHAM YOUNG		Figures are as of August 31, 1987.
BRITISH COLUMBIA	(1-9,15-26)	Figures are as of March 31, 1987.
	(4,15-19)	Includes government publications.
	(8)	Microform holdings including government document microforms are 3,492,476.
	(17,18)	Included in Monographs Expenditures (15).
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$2,446,278; (16) \$2,640,752; (17) U/A; (18) U/A; (19) \$5,087,030; (20) \$198,148; (21) \$3,935,639; (22) \$4,925,821; (23) \$851,110; (24) \$9,712,570; (25) \$1,179,687; (26) \$16,177,435.
BROWN		Includes John Carter Brown Library and Annmary Brown Library.

<i>Institution</i>	<i>Category from Main Tables</i>	<i>Notes</i>
BROWN UNIVERSITY (cont.)	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
CALIF., BERKELEY	(17,18)	Included in Monographs Expenditures (15).
CALIF., DAVIS		Includes Harrison Western Research Center Library collection of 17,434 bound volumes and 107 non-document serials in Fair Oaks, California.
CALIF., IRVINE	(7)	Figures for current serials including government documents serials is 20,043.
	(8)	Microform holdings including government publications microforms are 1,414,604.
CALIF., LOS ANGELES	(1)	1985-86 figure revised.
	(1-3)	Initial volume count in 1940s was bibliographical; subsequent counts of added volumes have been physical.
	(5-7)	Includes cataloged government document serials.
	(11)	Professional staff includes the following position titles: Specialist, Principal Administrative Analyst, Senior Administrative Analyst, Administrative Analyst, Programmer, Senior Accountant, MSO I-IV, Principal Editor, Senior Editor, and Library Assistant V.
CALIF., RIVERSIDE	(14)	Includes 1 FTE professional, 3 FTE non-professionals, and 3 FTE student assistants for project.
	(19)	Includes donations and budgeted funds.
	(23)	Includes \$32,373 in federal work study funds.
	(25)	Includes grants, opportunity funds, and budgeted funds.
CALIF., SAN DIEGO	(7)	Includes monographic and publishers' series.
	(8)	Excludes government documents microforms only if housed in separate collection.

<i>Institution</i>	<i>Category from Main Tables</i>	<i>Notes</i>
CALIF., SAN DIEGO (cont.)	(14)	Includes 14.17 FTE hired for cost recovery operations, special projects, and grants.
	(17)	Figure is considerably less than 1985-86 figure because in transition to automated system, non-serial microforms that were ordered manually were not tracked.
	(18)	Includes machine-readable data files (\$5,502) and data services (\$29,135).
	(25)	Includes offsetting internal recharge income.  Full-time faculty figure estimated.
CALIF., SANTA BARBARA	(7)	1986-87 figure excludes government documents for the first time.
CANADA INSTITUTE FOR SCIENTIFIC AND TECHNICAL INFORMATION		Includes 15 branch libraries throughout Canada which serve the divisions of the National Research Council of Canada, CISTI's parent organization.  All figures are as of March 31, 1987.
	(24)	Includes fringe benefits.
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$1,881,308; (16) \$5,574,972; (17) \$150,924; (18) \$786,467; (19) \$8,393,671; (20) \$135,940; (21) \$3,684,801; (22) \$3,700,738; (23) 59,492; (24) \$7,445,031; (25) \$8,043,289; (26) \$24,017,931.
CASE WESTERN RESERVE	(1-3)	Count is physical for some libraries and bibliographical for others.
	(3)	Includes withdrawal of 13,476 volumes from the Library Science Library.
	(11)	Includes 1 FTE paid through grant funds.
	(12)	Includes 1 FTE paid through grant funds and 1 FTE on special project.
CENTER FOR RESEARCH LIBRARIES	(5-7)	Excludes state documents.

<i>Institution</i>	<i>Category from Main Tables</i>	<i>Notes</i>
CENTER FOR RESEARCH LIBRARIES (cont.)	(2)	Excludes uncataloged government documents. Figure includes other material that is uncataloged but arranged on shelves for use.
	(4,15,16)	Separate records for monograph and serial purchases are not kept.
CHICAGO	(5-7)	Includes cataloged government document serials.
	(7)	Figure reflects more accurate counting procedures than used in the previous years.
	(8)	Excludes unrecorded government documents previously included.
	(10)	Does not include 13,608 borrowed from the Center for Research Libraries.
	(16)	Includes monographic series.
	(22)	Includes 36 FTE on special projects and cost recovery.
CINCINNATI	(8)	Decrease in units held due to revised unit count.
	(15)	Includes Other Library Materials (17).
	(16)	Includes microforms.
	(26)	Includes \$527,893 for development and installation of automated library system.
COLORADO		Ph.D. counts include doctoral degrees in all fields and all doctoral degrees awarded.
	(7)	Current serials holdings including government document serials are 23,044.
	(8)	Microform holdings including government document microforms are 3,347,169.
	(12)	Includes 1 FTE paid from grant funds and 4 FTE paid from auxiliary funds.
	(13)	Includes 24 FTE paid from work study funds.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
COLORADO (cont.)	(18)	Includes bibliographic utility, literature searching, and postage expenditures.
	(23)	Includes \$154,706 in work study funds.
COLORADO STATE	(25)	Does not include \$56,422 for book storage facility.
COLUMBIA	(7)	Number of serials recounted this year.
	(11-14)	Includes 18 FTE professional, 25 FTE non-professional, and 12 FTE student assistants on special funding.
CONNECTICUT		Includes Hartford Regional Library.
	(17,18)	Included in Monographs Expenditures (15).
CORNELL		Includes Geneva Experiment Station.
	(1)	1985-86 figure revised.
	(15-18)	Unable to differentiate expenditure categories.
DARTMOUTH	(11-14)	Includes 1 FTE professional, 7 FTE non-professional, and 1 FTE student assistant paid from grant funds.
	(17)	Includes serial microforms (\$94,487), serial audiovisual (\$9,005), and serial machine-readable data files (\$14,000).
	(18)	Included in Other Library Materials (17).
DELAWARE		Figures include Marine Studies Library at the University of Delaware Marine Studies Complex in Lewes, Delaware.
	(11-14,21-24)	Figures do not include professional and nonprofessional staff in Management Information Services assigned to the library.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(18)	Does not include major outlay for construction, furnishings, and equipment.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
DUKE	(4)	Perkins (main) Library reports number of titles, not volumes.
	(8)	Counts based on physical microform pieces. Includes Law Library government documents.
	(11)	Includes 2 FTE on special projects and grants.
	(12)	Includes 1 FTE on term appointment..
EMORY	(1)	Includes 271,343 government documents, cataloged and housed separately.
	(7)	Includes 1,975 government document serials, cataloged and housed separately.
	(11-26)	Figures are for fiscal year ending August 31, 1987.
	(14)	Includes 6 FTE cost recovery positions and 9.75 FTE paid from special project and grant funds.
	(18)	Includes database searches (\$57,508), and bibliographic utilities (\$38,940).
FLORIDA		Number of full-time instructional faculty as of October 1, 1987.
	(25,26)	Does not include consultant fees and special projects costs totaling \$57,334.  Full-time and part-time graduate student figures include law and medical students.
FLORIDA STATE		Excludes Development Research School; includes branch campus in Panama City (holdings and materials expenditures only).
	(15)	Includes microforms, audiovisual materials, etc.
	(17,18)	Figures available for law library only.
GEORGETOWN	(1)	1985-86 figure revised.
	(5-7)	Includes government documents if cataloged and not part of the Depository.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
GEORGIA		Includes experiment stations at Griffin, Tifton, Skidaway, and Sapelo.
	(1,2)	Includes cataloged government documents, some of which are shelved together in the Main and Science Libraries.
	(7)	Includes some monographic series received on standing order
GEORGIA TECH	(1-7)	Includes government documents that are cataloged, classified, and housed separately.
	(26)	Includes \$158,167 in research, endowment, and gift funds.
GUELPH		Figures are as of April 30, 1987.
	(1)	Includes cataloged government documents.
	(25)	Increase over 1985-86 reflects special revenue.
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$632,781; (16) \$1,258,284; (17) \$316,265; (18) U/A; (19) \$2,207,330; (20) \$87,766; (21) \$1,467,599; (22) \$2,017,560; (23) \$137,546; (24) \$3,622,705; (25) \$186,105; (26) \$6,103,906.
HARVARD		Includes research institutions in District of Columbia, Texas, and Italy.
	(1)	1985-86 figure revised.
	(8)	Includes some government documents.
	(17)	In previous years, most microform expenditures were included in figures for serials and monographs.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
HARVARD (cont.)	(26)	Separate figures for expenditures from grants and special projects not available. Expenditures do not include fringe benefits (\$3,867,536), building and maintenance (\$2,191,232) charged to library budget. Total reported expenses including these items: \$40,851,510. Cost recovery items (\$2,801,762) are included this year.  Number of full-time instructional faculty excludes Medical School, School of Public Health, and Dental School.
HAWAII		Excludes Industrial Relations Library, Hawaii Institute of Geophysics Library, and School of Public Health Reference Collection, all not under university library administration.
	(5,6)	Estimated figures.
	(18)	Included in Monographs Expenditures (15).
HOUSTON		All figures are as of August 31, 1987.
HOWARD	(18)	Includes bibliographic utilities (\$36,550), and publications memberships (\$450).
ILLINOIS	(7)	Estimated figure.
INDIANA	(15)	Figure lower than 1985-86 because of increases in expenditures for serials (line 16) and expenditures for manuscripts are included in Other Library Materials Expenditures (17) this year.
IOWA	(5,7)	Includes only those government documents received on paid subscriptions. Excludes monographic series for the first time this year.
	(11-14)	Includes 7 FTE on special retrospective conversion project.
	(16)	Expenditures for monographic series not available.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
IOWA (cont.)	(17)	Figure available for Law Library only (\$98,426). Expenditures for other libraries are included in Monographs Expenditures(15) and Serials Expenditures (16).
	(18)	Automation expenditures.
	(21)	Excludes salary for .5 FTE Associate Dean for Research in Law.
	(25)	Includes library expenditures for automation for the first time this year.
	(26)	Includes \$46,627 in gifts, \$98,724 in federal grant funds.
IOWA STATE	(5-7)	Includes government document serials that are cataloged, classified, and shelved as part of the collection.
	(8)	Includes government publications microfilm.
JOHNS HOPKINS		Includes Peabody Conservatory Library; Welch Medical Library; School of Hygiene and Public Health Library; Applied Physics Laboratory Library; and School of Advanced International Studies in Washington, DC and Bologna, Italy; the Center for Italian Studies in Florence, Italy; the Montgomery County Center in Rockville, MD; and the School of Continuing Studies' Columbia Center.
	(1)	1985-86 figure revised.
	(18)	Includes literature searching and computer-assisted instruction.  Graduate students not included in full-time student enrollment figures.
KANSAS		Includes School of Medicine in Kansas City.
	(1)	1985-86 figure revised.  Count of Ph.D. fields includes one joint program with Kansas State, for a total of 52 fields at Lawrence campus and 11 at Medical Center in Kansas City.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
KENT STATE	(5)	includes continuations.
	(6)	Estimated figure.
	(7)	Excludes 4,750 government serials.
	(8)	Excludes government documents.
	(11-14,17,19,21-26)	Figures include Audiovisual Services, Computer Assisted Instruction, and Teleproduction.
KENTUCKY	(25)	Includes fringe benefits and special grants for equipment.
	(7)	Excludes government documents.
	(11,12)	Includes 4 FTE professionals and 2 FTE nonprofessionals paid from grant funds.
	(13)	Includes 20 FTE students paid through work-study funds and other non-library units.
LAVAL	(26)	Includes \$217,521 in grants and gifts, \$193,026 in income, \$451,602 for installation of an automated system, \$116,148 for a special project, and \$210,263 from work-study and other non-library units.
	(15)	Includes \$12,308 (Can.) in grant funds.
	(17)	Includes \$237,834 (Can.) for the conversion on microfilm of part of the Scientific Library's periodical collections.
	(18)	Expenditures for online literature searching.
	(20)	Includes only special contracts and binding furniture. Most binding is done in-house. Salaries involved are \$161,264 (Can.).
	(24)	Fringe benefits, which are not included, total Can. \$1,166,001 (U.S. \$1,837,227).

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
LAVAL (cont.)	(15-26)	Expenditures reported in Canadian dollars were: (15) \$955,640; (16) \$1,698,991; (17) \$269,618; (18) \$134,457; (19) \$3,058,706; (20) \$51,934; (21) \$3,154,309; (22) \$4,176,746; (23) \$144,081; (24) \$7,475,136; (25) \$930,511; (26) \$11,516,287.
LIBRARY OF CONGRESS	(5-7)	Estimated number of titles.
LINDA HALL		All figures are as of December 31, 1986.
	(8)	Excludes 918,400 technical reports on microform.
	(18)	Includes \$16,100 in memberships, \$37,000 in bibliographic utilities and online searching.
LOUISIANA STATE		Includes Law Library and Veterinary Medicine Library.
	(1,3)	Includes bound government documents.
	(17)	Expenditures for microforms for main library unavailable.
	(18)	Includes SOLINET (\$52,577), online searching (\$45,673), security (\$36,475), computer costs (\$20,219), NOTIS maintenance (\$10,100), and RLIN (\$652).
	(23)	Does not include \$356,508 in work-study funds; includes \$212,450 in Graduate Assistant wages.
McGILL		All figures are as of May 31, 1987.
	(1)	1985-86 figure revised.
	(17)	Includes \$723,537 (Can.) in special funds and \$54,000 (Can.) in government grants toward specific collections.
	(18)	Includes \$44,977 (Can.) for memberships; \$23,000 (Can.) for Tattletape; \$574,191 (Can.) for bibliographic searching and utilities.
	(22)	Includes \$182,906 (Can.) for contracted security services.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
McGILL (cont.)	(25)	Includes \$361,260 (Can.) for retrospective conversion; \$70,790 (Can.) for capital equipment; \$936,187 (Can.) for automation hardware and software installations.
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$1,322,742; (16) \$1,755,856; (17) \$777,537; (18) \$642,168; (19) \$4,498,303; (20) \$172,800; (21) \$3,317,952; (22) \$4,811,177; (23) \$503,353; (24) \$8,632,482; (25) \$1,635,301; (26) \$14,938,886.
McMASTER		All figures are as of April 30, 1987.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$1,571,099; (16) \$1,963,489; (17) U/A; (18) \$7,366; (19) \$3,541,954; (20) \$92,223; (21) \$1,492,399; (22) \$2,776,957; (23) \$350,597; (24) \$4,619,953; (25) \$568,841; (26) \$8,822,971.
MANITOBA		All figures are as of March 31, 1987.
	(11,12)	Includes 1 FTE professional paid from medical grant and 1.3 FTE nonprofessionals paid from grant funds.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$590,225; (16) \$1,738,384; (17) U/A; (18) U/A; (19) \$2,328,609; (20) \$107,102; (21) \$2,218,047; (22) \$2,846,622; (23) \$394,515; (24) \$5,459,184; (25) \$594,821; (26) \$8,489,716.
MARYLAND		College of Library and Information Services data are included for collections and expenditures (except salaries and wages), but not for personnel.
	(13,24)	Expenditures for federal work study students are not included, but these students are included in the calculation of FTE student assistants.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
MARYLAND (cont.)		Ph.D. count includes all doctoral fields.
MASSACHUSETTS	(7)	Includes 310 serial titles received as U.S. depository items. These titles are fully cataloged, classified, and intershelved in the main and branch collections.
	(12)	Includes 6 temporary staff for retrospective conversion, and 2 trust-funded staff.
	(23)	Does not include \$99,997 Federal Work Study contribution.
		Ph.D.'s awarded excludes 98 Ed.D. degrees.
MIT	(11,12)	Includes 6.2 FTE professionals and 6 FTE nonprofessionals paid through grant funds.
	(18)	Includes \$110,396 for bibliographic utilities; \$80,953 for literature searching.
	(26)	Includes \$227,963 in grant funds.
MIAMI	(7)	Government documents excluded for the first time this year.
	(21)	Excludes director's salary.
MICHIGAN		Excludes Dearborn Campus Library, and the University of Michigan, Flint Library.
	(1)	Includes microforms in the Transportation Research Institute.
	(16)	Includes microform serials
	(23)	Transportation Research Institute personnel budget is covered by parent institution except for \$7,862.
MICHIGAN STATE	(1)	Figure for 1985-86 revised. Government documents excluded for the first time in 1986-87.
	(5-7)	Government documents excluded.
	(8)	Government documents excluded for the first time.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
MICHIGAN STATE (cont.)	(14)	Includes 1.5 FTE paid from grant funds.
	(17)	Included in Monographs Expenditures (15) and Serial Expenditures (16).
	(18)	Included in Other Operating Expenditures (25).
MINNESOTA	(1)	1985-86 figure revised.
	(18)	Includes CRL dues (\$27,513); South American Microfilming Project (\$550); P-480 (\$15,661).
	(25)	Includes \$1,527,548 purchase of hard- and software for automated system.
MISSOURI	(5,7)	Includes law monographic series.
	(18)	Includes \$16,000 paid to OCLC by Law Library.
	(21)	Includes 45% of \$223,000 for UM-Wide Library Systems Office for online catalog.
	(25)	Includes 45% of \$336,000 for UM-Wide Library Systems Office for online catalog.
NATIONAL AGRICULTURAL LIBRARY		U.S.D.A. field libraries are not included.
		Figures are as of September 30, 1987.
	(16)	Includes Other Library Materials (17) and Miscellaneous Materials Expenditures (18).
	(21-24)	Includes fringe benefits.
NATIONAL LIBRARY OF CANADA		Figures for holdings, interlibrary loans, and expenditures are as of March 31, 1987.
	(4)	In addition to the number of monographic volumes purchased, two copies of documents published in Canada are received on legal deposit.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
NATIONAL LIBRARY OF CANADA (cont.)	(6)	Figure also includes the number of serials received on legal deposit.
	(11-14)	Authorized person-years.
	(15,16)	Canadian monographs and serials are received on legal deposit.
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$568,525; (16) \$432,888; (17) \$1,490,204; (18) \$46,071; (19) \$2,587,688; (20) \$21,765; (21) \$7,582,807; (22) \$10,785,807; (23) \$379,643; (24) \$18,747,735; (25) \$12,280,068; (26) \$33,637,256.
NATIONAL LIBRARY OF MEDICINE	(11-26)	Statistics reflect the Library Operations component of the Library: Public Services, Technical Services, Bibliographic Services, and History of Medicine Divisions, as well as the Medical Subject Headings staff, the staff of the Regional Medical Library program, and the Office of the Associate Director for Library Operations. Excluded this year, although previously reported, are the Library's Office of Computer and Communications Systems and the Specialized Information Services Division.
NEBRASKA	(4-6)	Does not include figures for law library, which are not available.
	(7)	Includes cataloged government documents.
	(16)	Includes monographic and publishers' series for Law Library.
NEWBERKY LIBRARY	(18)	Includes Law Library figures only.
	(7)	Estimated figure.
	(20)	Figure reflects costs for in-house binding.
	(25)	Includes buildings, maintenance, and Division of Research and Education.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
NEWBERRY LIBRARY (cont.)	(24,25)	Includes building operations costs.
NEW MEXICO		Excludes Law and Medical Library data included in 1985-86.
	(1-3)	Includes some non-print volumes.
	(7,8)	Excludes government documents.
		Law and Medical Faculty included in full time instructional faculty.
NEW YORK		All figures as of August 31, 1987.
	(1)	Corrected from previous years.
	(4)	Excludes law and medical libraries.
		Number of full-time instructional faculty previously excluded Medical School Faculty. Faculty excluding Medical is 1,186.
NEW YORK PUBLIC LIBRARY		Figures for 1986-87 not yet available; all figures reported are for 1985-86.
	(1)	1984-85 figure revised.
	(7)	Includes current and irregular serials and periodicals. No separate count kept of current serial titles.
	(24)	Does not include Central Administration and Development Office, @ \$5.5 million.
NEW YORK STATE LIBRARY		All figures as of March 31, 1987.
	(1)	Includes cataloged government documents.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
NORTH CAROLINA		Includes Institute of Marine Sciences Library.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
NORTH CAROLINA (cont.)	(11,12)	Includes 3 FTE professionals and 1.5 FTE nonprofessionals on special grant funds. Does not include 7.5 FTE paid from funds contributed by Duke and North Carolina State Universities for support of the Triangle Research Libraries Network.
	(26)	Includes \$1,910,588 in grants, trust, and other special funds. Does not include \$246,145 in expenditures for the Triangle Research Libraries Network from funds contributed by Duke and North Carolina State Universities.
NORTH CAROLINA STATE		Includes Veterinary Medical Library.
	(11-14)	Include 1 FTE professional and 2 FTE nonprofessionals on Title II-C grant.
	(18)	Includes bibliographic utilities (\$123,355), memberships (\$30,909), and other (\$18,783).
NORTHWESTERN		Includes Dental Library.
		All figures are as of August 31, 1987.
	(4)	Does not include Law and Medical Libraries.
	(7)	Includes cataloged government documents not reported in previous years.
	(12)	Includes 1.28 FTE nonprofessionals on special grants and projects.
	(18)	Does not include Law and Medical Libraries. Includes database searching and bibliographic utilities charges.
NOTRE DAME	(6)	No record kept of gift subscriptions.
OHIO STATE		Includes University Archives.
	(5-7)	Includes cataloged government documents.
	(25)	Includes expenditures attributed in 1973-84 and earlier years to the University computer center.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
OKLAHOMA	(1)	1985-86 figure revised.
OKLAHOMA STATE		Excludes OSU Technical Institute in Oklahoma City and OSU School of Technical Training in Okmulgee. Excludes Veterinary Medicine Library included in previous years.
	(12)	Includes 15 FTE temporary positions to assist in the implementation of the Library's automated system.
	(21-24)	Fringe benefits included.
OREGON	(4)	Reported figure refers to titles.
	(7)	Excludes duplicate subscriptions.
	(18)	Includes bibliographic utilities, LEXIS/WESTLAW searching, shipping charges, and miscellaneous.
PENNSYLVANIA	(8)	Excludes government document microforms for the first time this year.
	(11-14)	Includes 2 professionals and 3 nonprofessionals paid by grant.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).  Number of instructional faculty includes 1,808 permanent and 2,044 non-permanent full-time faculty.
PENNSYLVANIA STATE		Includes main campus and branches at Allentown, Altoona, Beaver, Berks, Delaware Co., DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Ogontz, Schuylkill, Scranton, Shenango Valley, Wilkes-Barre, York, Behrend College, King of Prussia Center for Graduate Studies, and Capital College at Middletown, PA.
PITTSBURGH		Excludes branch campus libraries at Johnstown, Greensburg, Bradford, and Titusville.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
PITTSBURGH (cont.)	(11,12)	Includes 5.5 FTE professionals and 3 FTE nonprofessionals paid from grant funds.
	(18)	Includes \$8,398 from ILL payments.
	(25)	Includes \$554,163 for computer hardware and software, and \$789,761 for renovation and wiring of libraries for automation.  Ph.D. and enrollment figures (except full-time students) do not apply to School of Law. Figures for School of Law and School of Medicine include first professional students.
PRINCETON	(24)	Figures prior to 1985-86 included fringe benefits.
PURDUE	(11,12)	Wide difference between 1985-86 and 1986-87 figures is the result of correcting the classification of staff for reporting purposes.
QUEEN'S		Figures are as of April 30, 1987.
	(16)	Includes microforms.
	(17)	Includes audiovisual material only.
	(21)	Does not include Chief Law Librarian.
	(25)	Includes funds from cost recovery \$179,623 (Can.).
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$1,144,941; (16) \$1,905,949; (17) \$9,619; (18) \$161,099; (19) \$3,221,608; (20) \$120,024; (21) U/A; (22) U/A; (23) \$216,776; (24) \$4,623,053; (25) \$420,422; (26) \$8,385,107.
RICE	(9)	Includes interlibrary loans to corporate libraries.
	(18)	Includes bibliographic utilities (\$51,851), database searching (\$42,474), security (\$10,000), and memberships (\$13,253).
	(19,25,26)	Includes all sources of funding.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
RICE (cont.)	(24)	Includes positions funded by external grants, contracts, and transfers from other university budgets and cost centers.  Number of full-time instructional faculty includes FTE adjunct professors.
ROCHESTER		Includes Sibley Music Library of Eastman School of Music.
	(4,6,18)	Excludes Sibley Music Library.
	(5,7)	Includes purchased government document serials.
	(8)	Excludes government documents.
	(15)	Includes microform series and backfiles of periodicals.
	(16)	Includes monographic and publishers' series.
	(17)	Includes Sibley Music Library only.
RUTGERS		Figures include services to the basic medical sciences component of a non-Rutgers medical school, and campuses in Camden, Newark, and New Brunswick.
	(19,22)	Excludes cost recovery positions and staff hired for special projects and grants.
SASKATCHEWAN		Excludes Theological College libraries on campus that are not part of the library system.  Figures are as of April 30, 1987.
	(1)	1985-86 figure revised.
	(17)	Included in Monographs Expenditures (15).
	(18)	Included in Other Operating Expenditures (25).

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
SASKATCHEWAN (cont.)	(15-26)	Expenditures reported in Canadian dollars were: (15) \$846,942; (16) \$2,059,586; (17) U/A; (18) U/A; (19) \$2,906,528; (20) \$100,304; (21) \$1,316,071; (22) \$2,700,512; (23) \$194,849; (24) \$4,211,432; (25) \$425,580; (26) \$7,643,844.  Figures for Total FTE Part-time Students and Total FTE Part-time Graduate Students based on registrations.
SMITHSONIAN		Includes Smithsonian Astrophysical Observatory in Cambridge, MA and Mt. Hopkins, AZ; Cooper-Hewitt Museum in New York City; and Smithsonian Tropical Research Institute in Panama. Excludes Hirshhorn Museum and Sculpture Garden; Woodrow Wilson International Center for Scholars, Freer Gallery of Art, National Museum of American Art, and National Portrait Gallery.  All figures are as of September 30, 1987.
	(1)	In previous years, basis of volume count was bibliographical.
	(9)	Interlibrary loan figures are reduced because one major branch was closed for moving to a new location during three-fourths of the year, and a second major branch operated at reduced hours for several months due to renovation.
	(12)	Includes 8 temporary FTE hired for 3 projects.
	(16)	Includes \$8,000 special purpose and \$20,000 grant money for specific purchases.
	(17)	Includes: conservation (\$18,500); database rental (\$55,000); document delivery (\$25,000); and interlibrary loan (\$7,000).
	(18)	Includes: Smithsonian Institution Libraries Bibliographic Information Systems (\$125,000); contract cataloging (\$257,000); retrospective conversion (\$120,000); and in-house cataloging (\$123,000).

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
SOUTH CAROLINA	(11)	Includes 1 FTE paid from grant funds.
	(17,18)	Included in Monographs Expenditures (15) and Serial Expenditures (16).
SOUTHERN CALIFORNIA		Includes the Andrus Gerontology Center Library, the Hancock Library of Biology and Oceanography, and the Arnold Schoenberg Institute Library, and the Occupational Therapy/Physical Therapy and Nursing Collection. Does not include the Safety and Systems Management Library.
	(18)	Includes \$155,043 for RLG membership and \$89,289 for online searching.
		Figure for Ph.D.'s awarded includes doctoral candidates only.
		Ph.D. fields reported incorrectly in previous years.
SOUTHERN ILLINOIS		Full-time faculty figure excludes medical faculty.
		Excludes School of Medicine Library (Springfield), which is not administratively part of Library Affairs.
	(1)	1985-86 figure revised.
	(8)	Excludes government documents microforms for the first time.
STANFORD		Figures include Hopkins Marine Station Library.
	(14)	Includes 21 FTE paid from grant and contract funds.
	(15-26)	Figures are as of August 31, 1987.
	(26)	Includes \$1,034,587 in grant and contract funds. Excludes \$490,262 outside funding for purchase of Taube-Baron Collection.
SUNY, ALBANY		Includes the Graduate Library of Public Affairs and Policy (formerly Hawley Library) on East campus.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
SUNY, ALBANY (cont.)	(4,5,7,26)	Figures are as of March 31, 1987.
	(8)	Excludes 1,770,005 government document microforms.
	(11)	Includes 39.7 FTE academics and 6 FTE non-teaching professionals with second level administrative or supervisory responsibilities.
	(12)	Includes clerical support staff and professional faculty not included in Professional Staff (11).
	(13)	Includes Federal work study.
	(11-14)	Includes 1 FTE professional, 1 FTE nonprofessional, and 4 FTE student assistants paid from grant funds.
	(18)	Includes: ILL photocopying (\$1,887); memberships (\$92,352); bibliographic utilities (\$131,610); and computer-based reference service (\$20,161).
	(23)	Excludes Federal Work Study allocations.
	(24)	Includes \$60,566 in grant funds.
	(25)	Includes \$20,801 in grant funds and \$148,583 from revenue accounts.
SUNY, BUFFALO		Figures are as of March 31, 1987.
	(5)	Includes monographic series.
	(11-14)	Includes 4 FTE professionals, 3 FTE nonprofessionals, and 8 FTE student assistants on special projects grants.
	(16)	Includes expenditures for monographic series.
	(18)	Includes memberships (\$51,500) and bibliographic utilities and literature searching (\$91,770).
	(23)	Excludes Federal work study expenditures.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
SUNY, BUFFALO (cont.)		Ph.D.'s awarded are as of June 30, 1987.
SUNY, STONY BROOK		Figures are as of March 31, 1987.
	(8)	Includes government documents.
	(15)	Includes microforms, maps, and audiovisual materials for main library.
	(17)	Includes microforms and audiovisual materials from Health Sciences Library (\$70,000), periodical backfiles (\$58,580), reprints of periodical articles (\$1,860), and some newspapers on microfilm (\$8,437).
	(18)	Includes OCLC, RLIN, and RLG (\$210,893); literature searching (\$17,669), and memberships (\$9,435).
SYRACUSE		Excludes Utica College.
	(7)	The University Library and the Law Library undertook a serials cancellation project.
	(11)	Includes 3.5 FTE in Academic Computing Center.
	(18)	Figure included in Other Library Materials (17).
	(24)	Includes \$124,250 for Academic Computing Center staff.
	(25)	Includes Academic Computing Center computer rentals, collection insurance, CRL dues, as well as regular operating expenditures.
		Ph.D.'s awarded include all doctoral degrees.
TEMPLE		Includes Ambler, Tyler School of Art, and Temple University City Center Campuses. Excludes Journalism; Health, Physical Education, Recreation, and Dance Libraries; and other departmental collections.
TENNESSEE	(6)	Excludes classified documents.
TEXAS		Figures are as of August 31, 1987.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
TEXAS (cont.)		Includes the General Libraries, Law Library, and the Humanities Research Center.
	(5)	Figures unavailable for Law Library; figures for the General Libraries and the Humanities Research Center are 26,232 and 565 respectively.
	(6)	Figures unavailable for Law Library and Humanities Research Center; figure for General Libraries is 39,906.
	(14)	Includes 7.75 FTE staff hired on grant and/or recovery funds.
	(17,18)	Included in Monographs Expenditures (15).
	(19)	Includes expenditures of \$3,723,371 by the General Libraries, \$258,329 by the Humanities Research Center, and \$735,162 by the Law Library.
	(23)	Includes Title II-C and Federal work study funds.
	(25)	Includes \$845,764 for automated catalog development for the General Libraries; does not include additional funds expended for computer upgrade in support of project.
TEXAS A&M		Ph.D.'s awarded includes D.Ed. degrees.
		Medical Library is a separate academic entity; data from its two branch libraries are not included.
		All figures are as of August 31, 1987.
TORONTO	(4)	Figure reported is titles not volumes.
		All figures are as of April 30, 1987.
		Includes only the libraries of the university within the President's budget; excludes libraries of the federated and affiliated institutions.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
TORONTO (cont.)	(1)	1985-86 figure revised.
	(1,4,5,7)	Includes monographic series.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(25)	Figure reflects one-time expenditure for new automater system.
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$3,402,252; (16) \$3,537,581; (17) U/A; (18) U/A; (19) \$6,939,833; (20) \$261,309; (21) \$6,206,152; (22) \$9,612,877; (23) \$1,564,827; (24) \$17,383,857; (25) \$3,128,022; (26) \$27,713,021.
TULANE		Includes Delta Regional Primate Research Center in Covington, Louisiana.
	(4)	Figure reported is a combination of titles and volumes, and excludes the Law Library.
	(18)	Includes SOLINET charges.
UTAH	(25)	Includes one-time funding of \$753,308 towards new integrated system.
VANDERBILT	(1)	Does not include 14,000 hours of videotape.
	(9,10)	Includes Law Library.
	(17)	Included in Serials Expenditures (16).
	(18)	Includes online searching and bibliographic utilities only.
		Fulltime instructional faculty figure includes clinical faculty.
VIRGINIA	(16)	Includes expenditures for monographic series in Health Sciences Library.
	(18)	Includes expenditures for literature searching in Law Library.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
VIRGINIA POLYTECHNIC & STATE UNIVERSITY		University libraries were reorganized as of August 4, 1986. Due to changes in organizational structure, staff reassignments, and physical reorganization, data collected from July 1, 1986 through June 1, 1987 are not completely comparable to data collected in previous years.
		Includes "open reserve" collection of approximately 10,000 volumes at Northern Virginia Graduate Center in Falls Church, Virginia.
	(1)	1985-86 figure revised.
	(5-7)	Estimated figures.
	(16)	Includes prepayments of \$54,306 for 4,687 titles.
	(18)	Includes bibliographic utilities (\$97,500), literature searching (\$30,076), memberships (\$6,295), and binding supplies (including security strips) and contractual services (\$34,520).  Ph.D.'s awarded include Ed.D. degrees.  Full-time graduate student figure includes professional school (veterinary medicine) students.  Full-time instructional faculty figure represents major change in the University's interpretation of the ARL/AAUP/HEGIS/IPEDS definition.
WASHINGTON	(4)	Excludes Law Library.
	(11-14)	Includes 2 FTE professionals, 4.5 FTE nonprofessionals, 14 FTE students paid from cost recovery operations.
	(25)	Includes one-time allocation for online system.
WASHINGTON STATE	(5,6)	Estimated figure.

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
WASHINGTON STATE (cont.)	(8)	Includes government documents.
	(11-14)	Includes staff for Instructional Media Services. Includes .1 FTE professional and .5 FTE nonprofessional paid from grant funds and .2 FTE professional, 4.53 FTE nonprofessionals, and 3.71 FTE student assistants paid from cost recovery programs.
	(15,16)	Includes microforms.
	(17)	Figures for Instructional Media Service purchase of film and videos only.
WASHINGTON, ST. LOUIS	(4)	For Law Library, figure indicates number of titles added.
	(5)	Includes 3,101 current serials held in Law, Medical, and Dentistry libraries for which separate counts of purchased and not purchased are unavailable.
	(7)	Includes Law and Medical Library government documents.
	(8)	Includes government documents for Law Library; no separate counts available.
	(17)	Separate costs not available for Central library system.
	(21-24)	Includes fringe benefits for all libraries except the Central Library system and the Social Work Library.
	(25)	Includes on campus computing facilities and other automation costs, other services (i.e. postage, leases) and equipment. Includes Social Security and annuity for Medical, Law, and Business libraries.
WATERLOO		Figures include the Engineering, Mathematics and Science Library, and the University Map and Design Library.
		Figures are as of April 30, 1987.
	(1)	Includes cataloged government documents

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
WATERLOO (cont.)	(18)	Included in Monographs Expenditures (15), Serials Expenditures (16), and Other Library Materials Expenditures (17).
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$941,598; (16) \$1,665,800; (17) \$35,846; (18) U/A; (19) \$2,644,244; (20) \$78,202; (21) \$1,752,377; (22) \$2,708,631; (23) \$257,051; (24) \$4,718,059; (25) \$619,756; (26) \$8,060,261.
WAYNE STATE		All figures are as of September 30, 1987.
		Includes Ruether Archives of Labor and History and College of Pharmacy and Allied Health Professions.
	(18)	Included in Other Library Materials (17).
	(25)	Includes \$250,000 one-time allocation for acquisitions, plus \$450,000 one-time allocation for retrospective conversion.
WESTERN ONTARIO		Figures are as of April 30, 1987.
		Excludes libraries of 3 affiliated colleges, School of Library and Information Science, and departmental libraries.
	(17,18)	Included in Monographs Expenditures (15).
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$1,079,715; (16) \$2,488,645; (17) U/A; (18) U/A; (19) \$3,568,360; (20) \$162,458; (21) \$1,989,528; (22) \$3,375,772; (23) \$678,779; (24) \$6,044,079; (25) \$513,341; (26) \$10,288,238.
WISCONSIN	(1)	Includes maps. 1985-86 figure revised due to the addition of the Primate Library.
YALE		Includes Lewis-Walpole Library in Farmington, Connecticut.
	(1-6)	Excludes typewritten, handwritten, and mimeographed works (treated as manuscript materials).

<i>Institution</i>	<i>Category from Main Table</i>	<i>Notes</i>
YALE (cont.)	(5,6)	Estimated figures.(5-7)Excludes newspapers.  Number of full-time instructional faculty excludes Medical School.
YORK		All figures are as of April 30, 1987.  Includes Glendon Campus.
	(1)	1985-86 figure revised. Includes cataloged and classified government documents.
	(7)	Includes complete Law Library serials holdings; previous years' figure included partial holdings.
	(18)	Includes miscellaneous collection payments (Can. \$116,186) and gifts-in-kind (Can. \$62,258).
	(25)	Includes bibliographic utilities (Can. \$216,940) and online searching (Ca. \$25,877).
	(15-26)	Expenditures reported in Canadian dollars were: (15) \$1,233,235; (16) \$1,588,503; (17) \$129,393; (18) \$178,444; (19) \$3,129,575; (20) \$195,871; (21) \$2,094,183; (22) \$2,909,762; (23) \$590,952; (24) \$5,594,897; (25) \$1,351,996; (26) \$10,772,339.

# Association of Research Libraries

1527 New Hampshire Avenue, N.W., Washington, D.C. 20036

(202) 232-2466

April 14, 1988

To: Directors of ARL Libraries  
From: Nicola Daval, Information Officer  
Re: Library expenditures as percentage of university expenditures

The enclosed tables display the 1986-87 educational and general expenditures of the parent institutions of ARL university libraries. Also shown is the percent of each university figure that is represented by the institution's total library expenditure as reported to the 1986-87 ARL Statistics. The data are arranged both alphabetically by institution and in rank order by percent.

Caution should be used in interpreting the percentages as shown, because the university expenditure figures are not entirely comparable to those for the libraries. For example, the university figures include outlays for fringe benefits and maintenance of facilities; most ARL library figures do not include such expenditures. Definitions for the library expenditures can be found in the ARL Statistics questionnaire (p. 55-58 of the 1986-87 ARL Statistics). Definitions for the university reports are in the Department of Education Center for Statistics form, ED (CS) Form G-50-14P-F, Integrated Postsecondary Education Data System (IPEDS): Finance FY 1987. ARL used the figure reported on Line 12, column 3 of Part B.

We hope you find this "special report" useful. Please let me know if you have any comments about the data or the way they are displayed.

Enclosure

cc: Complimentary Statistics mailing list

0958N

LIBRARY EXPENDITURES AS PERCENTAGE OF UNIVERSITY EXPENDITURES  
1986-87 (Alphabetically Listed)

<u>Institution</u>	<u>Educational and General Expenditures (U.S. \$)</u>	<u>Total Library Expenditures (U.S. \$)</u>	<u>Library Expenditure as Percentage of E&amp;G</u>
Alabama	\$137,189,110	\$ 5,244,022	3.8%
Alberta	192,833,407	11,785,086	6.1%
Arizona	378,678,000	11,807,837	3.1%
Arizona State	266,981,230	11,436,506	4.3%
Boston	399,193,025	8,990,001	2.6%
Brigham Young	U/A	7,957,247	U/A
British Columbia	163,591,384	11,893,424	7.3%
Brown	157,730,123	8,225,474	5.2%
Calif., Berkeley	591,645,708	26,993,169	4.6%
Calif., Davis	439,201,602	12,808,628	2.9%
Calif., Irvine	260,528,797	9,838,430	3.8%
Calif., Los Angeles	833,581,262	29,428,949	3.5%
Calif., Riverside	116,086,291	6,629,959	5.7%
Calif., San Diego	414,303,175	11,967,176	2.9%
Calif., Santa Barbara	207,621,365	10,376,881	5.0%
Case Western	192,062,085	5,884,392	3.1%
Chicago	347,001,261	13,424,913	3.9%
Cincinnati	294,631,862	10,767,582	3.7%
Colorado	227,247,847	7,181,127	3.2%
Colorado State	198,947,000	5,650,936	2.8%
Columbia	590,147,000	20,008,645	3.4%
Connecticut	205,080,045	8,701,223	4.2%
Cornell	532,655,365	17,517,507	3.3%
Dartmouth	145,623,000	6,438,581	4.4%
Delaware	189,140,092	7,362,963	3.9%
Duke	308,348,000	11,398,777	3.7%
Emory	224,615,449	9,061,297	4.0%
Florida	576,564,862	10,952,533	1.9%
Florida State	178,519,149	6,657,342	3.7%
Georgetown	236,276,000	9,149,465	3.9%
Georgia	363,656,203	10,609,060	2.9%
Georgia Inst. of Tech.	213,876,364	4,154,159	1.9%
Guelph	75,010,293	4,487,507	6.0%
Harvard	689,802,896	34,792,740	5.0%
Hawaii	218,081,565	8,035,702	3.7%
Houston	103,393,281	5,945,170	5.8%
Howard	227,440,644	10,045,135	4.4%
Illinois	523,872,274	15,346,678	2.9%
Indiana	289,558,360	12,935,746	4.5%
Iowa	310,209,873	9,829,382	3.2%
Iowa State	303,349,983	6,449,772	2.1%
Johns Hopkins	473,409,000	10,831,473	2.3%
Kansas	329,451,146	10,197,931	3.1%
Kent State	106,942,050	6,377,416	6.0%
Kentucky	301,876,746	8,282,161	2.7%
Laval	199,722,835	8,466,612	4.2%
Louisiana State	191,304,450	8,095,082	4.2%
McGill	135,330,099	10,982,860	8.1%
McMaster	133,827,378	6,486,525	4.9%
Manitoba	143,967,928	6,241,520	4.3%
Maryland	357,836,608	10,934,347	3.1%
Massachusetts	238,433,078	9,825,395	4.1%
MIT	359,896,000	11,055,000	3.1%

U/A - Unavailable

LIBRARY EXPENDITURES AS PERCENTAGE OF UNIVERSITY EXPENDITURES  
1986-87 (Alphabetically Listed)

<u>Institution</u>	<u>Educational and General Expenditures (U.S. \$)</u>	<u>Total Library Expenditures (U.S. \$)</u>	<u>Library Expenditures as Percentage of E&amp;G</u>
Miami	\$268,079,338	\$ 7,921,184	3.0%
Michigan	651,525,911	18,851,310	2.9%
Michigan State	473,491,831	10,397,545	2.2%
Minnesota	709,309,561	17,881,544	2.5%
Missouri	280,574,088	6,441,179	2.3%
Nebraska	192,981,684	6,429,384	3.3%
New Mexico	166,238,530	6,522,692	3.9%
New York	569,560,000	13,978,558	2.5%
North Carolina	442,176,962	13,967,683	3.2%
North Carolina State	306,071,474	7,219,187	2.4%
Northwestern	356,928,000	10,650,409	3.0%
Notre Dame	143,161,716	6,234,615	4.4%
Ohio State	594,546,344	15,397,844	2.6%
Oklahoma	124,795,644	5,745,844	4.6%
Oklahoma State	86,018,795	4,322,554	5.0%
Oregon	123,460,077	6,408,014	5.2%
Pennsylvania	489,851,654	12,599,830	2.6%
Pennsylvania State	534,888,442	14,895,629	2.8%
Pittsburgh	363,254,521	11,162,154	3.1%
Princeton	240,232,000	13,762,225	5.7%
Purdue	382,424,199	7,350,599	1.9%
Queen's	85,758,712	6,164,613	7.2%
Rice	85,462,000	4,826,956	5.7%
Rochester	240,220,000	7,772,439	3.2%
Rutgers	473,201,651	15,664,381	3.3%
Saskatchewan	93,021,003	5,619,647	6.0%
South Carolina	201,468,242	6,152,360	3.1%
Southern California	518,936,943	10,479,038	2.0%
Southern Illinois	202,974,550	7,158,731	3.5%
Stanford	688,108,242	25,852,247	3.8%
SUNY, Albany	147,274,727	5,735,900	3.9%
SUNY, Buffalo	293,878,412	9,352,679	3.2%
SUNY, Stony Brook	257,748,482	7,268,991	2.8%
Syracuse	213,946,249	7,847,311	3.6%
Temple	227,305,692	7,128,893	3.1%
Tennessee	271,099,598	5,909,115	2.2%
Texas	433,892,867	16,258,070	3.8%
Texas A&M	486,807,890	9,022,614	1.9%
Toronto	375,022,056	20,374,225	5.4%
Tulane	146,217,000	6,552,253	4.5%
Utah	276,498,844	6,814,662	2.5%
Vanderbilt	189,492,124	8,588,061	4.5%
Virginia	276,974,867	13,258,591	4.8%
Virginia Polytechnic	298,946,874	7,394,904	2.5%
Washington	598,332,000	16,040,689	2.7%
Washington State	201,958,468	6,773,071	3.4%
Washington, St. Louis	389,136,598	8,793,639	2.3%
Waterloo	89,795,618	5,925,791	6.6%
Wayne State	266,767,797	9,475,897	3.6%
Western Ontario	157,046,023	7,563,769	4.8%
Wisconsin	647,700,505	17,253,886	2.7%
Yale	521,692,000	21,855,300	4.2%
York	134,614,027	7,552,081	5.6%

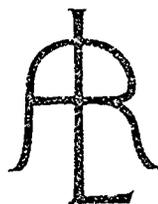
LIBRARY EXPENDITURES AS PERCENTAGE OF UNIVERSITY EXPENDITURES  
1986-87 (By Percentage)

<u>Institution</u>	<u>Educational and General Expenditures (U.S. \$)</u>	<u>Total Library Expenditures (U.S. \$)</u>	<u>Library Expenditures as Percentage of E&amp;G</u>
McGill	\$135,330,099	\$10,982,860	8.1%
British Columbia	163,591,384	11,893,424	7.3%
Queen's	85,758,712	6,164,613	7.2%
Waterloo	89,795,618	5,925,791	6.6%
Alberta	192,833,407	11,785,086	6.1%
Guelph	75,010,293	4,487,507	6.0%
Kent State	106,942,050	6,377,416	6.0%
Saskatchewan	93,021,003	5,619,647	6.0%
Houston	103,393,281	5,945,170	5.8%
Calif., Riverside	116,086,291	6,629,959	5.7%
Princeton	240,232,000	13,762,225	5.7%
Rice	85,462,000	4,826,956	5.7%
York	134,614,027	7,552,081	5.6%
Toronto	375,022,056	20,374,225	5.4%
Brown	157,730,123	8,225,474	5.2%
Oregon	123,460,077	6,408,014	5.2%
Calif., Santa Barbara	207,621,365	10,376,881	5.0%
Harvard	689,802,896	34,792,740	5.0%
Oklahoma State	86,018,795	4,322,554	5.0%
McMaster	133,827,378	6,486,525	4.9%
Virginia	276,974,867	13,258,591	4.8%
Western Ontario	157,045,023	7,563,769	4.8%
Calif., Berkeley	591,645,708	26,998,169	4.6%
Oklahoma	124,795,644	5,745,844	4.6%
Indiana	289,558,360	12,935,746	4.5%
Tulane	146,217,000	6,552,253	4.5%
Vanderbilt	189,492,124	8,588,061	4.5%
Dartmouth	145,623,000	6,438,581	4.4%
Howard	227,440,644	10,045,135	4.4%
Notre Dame	143,161,716	6,234,615	4.4%
Arizona State	266,981,230	11,436,506	4.3%
Manitoba	143,967,928	6,241,520	4.3%
Connecticut	205,080,045	8,701,223	4.2%
Laval	199,722,835	8,466,612	4.2%
Louisiana State	191,304,450	8,095,082	4.2%
Yale	521,692,000	21,855,300	4.2%
Massachusetts	238,433,078	9,825,395	4.1%
Emory	224,615,449	9,061,297	4.0%
Chicago	347,001,261	13,424,913	3.9%
Delaware	189,140,092	7,362,963	3.9%
Georgetown	236,276,000	9,149,465	3.9%
New Mexico	166,238,530	6,522,692	3.9%
SUNY, Albany	147,274,727	5,735,900	3.9%
Alabama	137,189,110	5,244,022	3.8%
Calif., Irvine	260,528,797	9,838,430	3.8%
Stanford	688,108,242	25,852,247	3.8%
Texas	433,892,867	16,258,070	3.8%
Cincinnati	294,631,862	10,767,582	3.7%
Duke	308,348,000	11,398,777	3.7%
Florida State	178,519,149	6,657,342	3.7%
Hawaii	218,081,565	8,035,702	3.7%
Syracuse	213,946,249	7,647,311	3.6%
Wayne State	266,767,797	9,475,897	3.6%

LIBRARY EXPENDITURES AS PERCENTAGE OF UNIVERSITY EXPENDITURES  
1936-87 (By Percentage)

<u>Institution</u>	<u>Educational and General Expenditures (U.S. \$)</u>	<u>Total Library Expenditures (U.S. \$)</u>	<u>Library Expenditures as Percentage of E&amp;G</u>
Calif., Los Angeles	\$833,581,262	\$29,428,949	3.5%
Southern Illinois	202,974,550	7,158,731	3.5%
Columbia	590,147,000	20,008,645	3.4%
Washington State	201,958,468	6,773,071	3.4%
Cornell	532,655,365	17,517,507	3.3%
Nebraska	192,981,684	6,429,384	3.3%
Rutgers	473,201,651	15,664,381	3.3%
Colorado	227,247,847	7,181,127	3.2%
Iowa	310,209,873	9,829,382	3.2%
North Carolina	442,176,962	13,967,683	3.2%
Rochester	240,220,000	7,772,439	3.2%
SUNY, Buffalo	293,878,412	9,352,679	3.2%
Arizona	378,678,000	11,807,837	3.1%
Case Western	192,062,085	5,884,392	3.1%
Kansas	329,451,146	10,197,931	3.1%
Maryland	357,836,608	10,934,347	3.1%
MIT	359,896,000	11,055,000	3.1%
Pittsburgh	363,254,521	11,162,154	3.1%
South Carolina	201,468,242	6,152,360	3.1%
Temple	227,305,692	7,128,893	3.1%
Miami	268,079,338	7,921,184	3.0%
Northwestern	356,928,000	10,650,409	3.0%
Calif., Davis	439,201,602	12,808,628	2.9%
Calif., San Diego	414,303,175	11,967,176	2.9%
Georgia	363,656,203	10,609,060	2.9%
Illinois	523,872,274	15,346,678	2.9%
Michigan	651,525,911	18,851,310	2.9%
Colorado State	198,947,000	5,650,936	2.8%
Pennsylvania State	534,888,442	14,895,629	2.8%
SUNY, Stony Brook	257,748,482	7,268,991	2.8%
Kentucky	301,876,746	8,282,161	2.7%
Washington	598,332,000	16,040,689	2.7%
Wisconsin	647,700,505	17,253,886	2.7%
Boston	399,193,025	8,990,001	2.6%
Ohio State	594,546,344	15,397,844	2.6%
Pennsylvania	489,851,654	12,599,830	2.6%
Minnesota	709,309,561	17,881,544	2.5%
New York	569,560,000	13,978,558	2.5%
Utah	276,498,844	6,814,662	2.5%
Virginia Polytechnic	298,946,874	7,394,904	2.5%
North Carolina State	306,071,474	7,219,187	2.4%
Johns Hopkins	473,409,000	10,831,473	2.3%
Missouri	280,574,088	6,441,179	2.3%
Washington, St. Louis	389,136,598	8,793,639	2.3%
Michigan State	473,491,831	10,397,545	2.2%
Tennessee	271,099,598	5,909,115	2.2%
Iowa State	303,349,983	6,449,772	2.1%
Southern California	518,936,943	10,479,038	2.0%
Florida	576,564,862	10,952,533	1.9%
Georgia Inst. of Tech.	213,876,364	4,154,159	1.9%
Purdue	382,424,199	7,350,599	1.9%
Texas A&M	486,807,890	9,022,614	1.9%
Brigham Young	U/A	7,957,247	U/A

U/A - Unavailable  
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